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1937

THE UNIVERSITY CALENDAR

1937-1938

AUTUMN QUARTER

Pre-registration dates.....May 3 to May 28, inclusive
Section reservations of pre-registered students will be cancelled if tuition is not paid by.....Friday, September 10
Registration dates for students (not Engineers) who do not pre-register August 2 to September 29, inclusive
During this period, fees must be paid in advance of registration.
Students may not register from May 29 to August 1.
Registration dates for Engineers who do not pre-register....Sept. 2 to Sept. 29, inclusive
During this period, fees must be paid in advance of registration.
Last registration day before beginning of instruction.....Wednesday, September 29
Special Instruction for New Freshmen.....Begins 9 a.m., Sept. 30; ends Oct. 2
College Aptitude Test (Room 233 Philosophy Hall).....Oct. 2, 8 a.m.
Instruction begins.....Monday, October 4
President's annual address.....Friday, October 8, 11 a.m.
Last day to register with late fee, and to add a course.....Saturday, October 9, 12 m.
Regular meeting of the faculty.....Tuesday, October 26, 4 p.m.
Last day to withdraw and receive a "W" without grade....Saturday, November 13, 12 m.
President's Reception to Parents of New Freshmen.....Tuesday, November 23, 7:30 p.m.
Thanksgiving recess begins.....Wednesday, November 24, 6 p.m.
Thanksgiving recess ends.....Monday, November 29, 8 a.m.
Regular meeting of the faculty.....Tuesday, December 7, 4 p.m.
Instruction ends.....Friday, December 17, 6 p.m.

WINTER QUARTER

Pre-registration dates.....November 1 to December 17, inclusive
Section reservations of pre-registered students will be cancelled if tuition is not paid by.....Friday, December 17
Registration dates for students who do not pre-register.....Dec. 27 to Dec. 31, inclusive
During this period fees must be paid in advance of registration.
Students may not register from December 18 to December 26.
Last registration day before the beginning of instruction.....Friday, December 31
Instruction begins.....Monday, January 3, 8 a.m.
Last day to register with late fee and to add a course.....Saturday, January 8, 12 m.
College Aptitude Test (233 Philos. Hall)....Mon., Jan. 10, 12 m. or Tues., Jan. 11, 8 a.m.
Regular meeting of the faculty.....Tuesday, January 25, 4 p.m.
Last day to withdraw and receive a "W" without grade.....February 12, 12 m.
Washington's birthday, (Founders' Day).....Tuesday, February 22
Regular meeting of the faculty.....Tuesday, March 8, 4 p.m.
Instruction ends.....Friday, March 18, 6 p.m.

SPRING QUARTER

Pre-registration dates.....February 1 to March 18, inclusive
Section reservations of pre-registered students will be cancelled if tuition is not paid by.....Friday, March 18
Registration dates for students who do not pre-register.....March 23 to March 26, 12 m.
During this period, fees must be paid in advance of registration.
Students may not register from March 19 to March 22.
Last registration day before beginning of instruction.....Saturday, March 26, 12 m.
Instruction begins.....Monday, March 28, 8 a.m.
Last day to register with late fee, and to add a course.....Saturday, April 2, 12 m.
College Aptitude Test (233 Philos. Hall).....Mon., Apr. 4, 12 m. or Tues., Apr. 5, 8 a.m
Regular meeting of the faculty.....Tuesday, April 19, 4 p.m.
Last day to withdraw and receive a "W" without grade.....Saturday, May 7, 12 m.
Governor's Day.....Thursday, May 19
Memorial Day (holiday).....Monday, May 30
Regular meeting of the faculty.....Tuesday, May 31, 4 p.m.
Instruction ends.....Friday, June 10, 6 p.m.
Class Day and Alumni Day.....Saturday, June 11
Baccalaureate Sunday.....Sunday, June 12
Commencement.....Monday, June 13

SUMMER QUARTER
1938

Pre-registration dates.....April 25 to June 11, 12 m.
Last day for securing reserved sections by payment of fees for students who pre-register (1st term).....Saturday, June 11, 12 m.
Last registration day before beginning of instruction.....Tuesday, June 14
On this day, fees must be paid when the student registers.
Instruction begins.....Wednesday, June 15, 8 a.m.
Last day to add a course (1st term).....Friday, June 17
Last day to add a course (full quarter).....Tuesday, June 21
College Aptitude Test (Room 233 Philosophy Hall).....Monday, June 27, 12 m.
Independence Day (holiday).....Monday, July 4
Last day to withdraw and receive a "W" without grade (1st term) Tues., July 5, 4:30 p.m.
First term ends.....Friday, July 22, 6 p.m.
Last day for securing reserved sections by payment of fees (2nd term).....Fri., July 22
Last day to withdraw and receive a "W" without grade (full quarter) Friday, July 22, 4:30 p.m.
Last registration day before beginning of instruction (2nd term)..Saturday, July 23, 12 m.
On this day, fees must be paid when the student registers.
Second term begins.....Monday, July 25, 8 a.m.
Last day to add a course (2nd term).....Wednesday, July 27
College Aptitude Test (Room 233 Philosophy Hall).....Monday, August 1, 12 m.
Last day to withdraw and receive a "W" without grade (2nd term).Tues., Aug. 9, 4:30 p.m.
Instruction ends.....Thursday, August 25, 6 p.m.

NOTICE

The University and its various colleges and schools reserve the right to change the rules regulating admission to, instruction in and graduation from the University and its various divisions and any other regulations affecting the student body. Such regulations shall go into force whenever the proper authorities may determine, and shall apply not only to prospective students, but also to those who may, at such time be matriculated in the University. The University also reserves the right to withdraw courses or change fees at any time.

UNIVERSITY COLLEGE

University College is a regular four year college offering a wide range of courses leading generally to the degrees of bachelor of arts or bachelor of science. It was formed by the union of the former Colleges of Liberal Arts and of Science.

The idea of this combination, however, embraced more than a mere merging of two administrative units. The new University College it was hoped would make possible a wider range of courses and a variety of training in answer to the evident demands of modern life. The College aims, of course, to give pre-professional training to those going into professional fields such as law, medicine, librarianship, dentistry, teaching and so forth. It offers further for those not specializing in any particular profession an opportunity for a general educational course with a major emphasis on some art or science. The College is also developing a program of General Studies aiming to provide a broad cultural college course without specialization in any single subject.

To carry on its work the College is organized into schools and departments as follows:

ADMINISTRATIVE OFFICERS

Lee Paul Sieg	*President of the University*
Edward H. Lauer	*Dean of University College*
David Thomson	*Dean of Student Academic Guidance*

DEPARTMENTS

Anatomy	John L. Worcester	Anatomy Building
Anthropology	Erna Gunther	101 Museum
Astronomy	T. S. Jacobsen	2 Observatory
Bacteriology	B. S. Henry	420 Johnson Hall
Botany	T. C. Frye	306 Johnson Hall
Chemistry	H. K. Benson	103 Bagley Hall
Classical Languages and Literature (Greek and Latin)	T. K. Sidey	201 Denny Hall
Economics	S. J. Coon	204 Commerce Hall
English—Literature, Drama, Public Speaking and Composition	D. D. Griffith	107 Parrington Hall
General Literature	L. P. deVries	209 Denny Hall
General Studies	H. B. Densmore	211 Denny Hall
Geography	H. H. Martin	29 Johnson Hall
Geology	G. E. Goodspeed	114 Johnson Hall
German	J. H. Groth	204 Denny Hall
History	Edward McMahon	202 Denny Hall
Liberal Arts	Herbert Cory	232 Philosophy Hall
Mathematics	A. F. Carpenter	147 Philosophy Hall
Oriental Studies	Robert Pollard	220 Denny Hall
Philosophy	William Savery	264 Philosophy Hall
Physics	Henry L. Brakel	206 Physics Hall
Political Science	Charles E. Martin	11A Condon Hall
Psychology	Stevenson Smith	338 Philosophy Hall
Romanic Languages—French, Spanish and Italian	Pierre J. Frein	215 Denny Hall
Scandinavian Languages	Edwin J. Vickner	210 Denny Hall
Sociology	Jesse F. Steiner	319 Physics Hall
Zoology and Physiology	Trevor Kincaid	202 Johnson Hall

SCHOOLS

Architecture	Harlan Thomas	Architecture Building
Art	Walter F. Isaacs	401 Education Hall
Fisheries	W. F. Thompson	1 Fisheries Hall
Graduate School of Social Work	Arlien Johnson	300F Commerce Hall
Home Economics	Effie I. Raitt	201 Home Economics Hall
Journalism	Vernon McKenzie	109 Commerce Hall
Librarianship	Ruth Worden	111 Library
Music	Frances Dickey	Music Building
Nursing Education	Elizabeth S. Soule	309 Home Economics Hall

PRE-PROFESSIONAL

Pre-Education	W. L. Uhl	113 Education Hall
Pre-Law	David Thomson	107 Parrington Hall
Pre-Medics or Pre-Dental	John L. Worcester	Anatomy Building

UNIVERSITY COLLEGE ENTRANCE REQUIREMENTS

General Statement

All correspondence regarding admission of students to the resident courses of the University and requirements for graduation, should be addressed to the Registrar.

Students are admitted to the resident work of the University by certificate or by examination. Only recommended graduates of fully accredited four-year secondary schools are admitted on certificate. The University reserves the right to reject any application for cause. Students are classified as graduates and undergraduates. Undergraduates are classified as regular students (freshmen, sophomores, juniors and seniors), unclassified students, and special students.

Admission by Certificate

A graduate of a four-year accredited secondary school, whose course has covered the requirements for entrance and who meets the scholarship requirement outlined below, will be admitted upon presentation of satisfactory credentials. Since school diplomas do not give the necessary information, they cannot be accepted for this purpose. Principals of all accredited high schools in the state are furnished with official blanks, which also may be obtained from the Registrar's office. Credentials accepted toward admission to the University are kept on permanent file.

The opening date for registration of new students for the autumn quarter, 1937, has been postponed to August 2. Any new student will find it to his advantage to have his credentials on file not later than July 15. The student who delays submission of his credentials handicaps himself unnecessarily. Owing to the congestion of correspondence during the weeks immediately preceding the opening of the quarter, it is impossible to reply at once to letters and applications sent in during this period.

Students may not register until complete credentials from all schools formerly attended have been received and evaluated.

No student may be accepted for admission who would not be recommended to the university of his home state.

A student graduating from a school system which provides for less than 12 years of instruction may be held for additional high school work.

Entrance Requirements

For entrance to University College, the student must present 12 units of credit, belonging normally to the last three years of the high school curriculum, which must include the following:

English, two units
Plane geometry, one unit, or second year algebra
Social science, one unit
Foreign language, a second unit
Laboratory science, one unit (biology, botany, chemistry, physics, or zoology)

If a student enters with six or more academic units which include the above subjects he enters without a deficiency. The foreign language and laboratory science requirements *only* may be made up in the college with university credit. Such credits may not be used in satisfying the group requirements as indicated on the following page.

CURRICULA

The departments and schools in University College shall be grouped as follows:

Group I	*Group II*	*Group III*
Architecture	Anthropology	Anatomy
Art	Economics	Astronomy
Classical Languages	Geography	Bacteriology
English	History	Botany
General Literature	Home Economics	Chemistry
Germanic Languages	Nursing Education	Fisheries
Journalism	Philosophy	Geology
Liberal Arts	Physical Education	Mathematics
Librarianship	Political Science	Physics
Music	Psychology	Zoology & Physiology
Oriental Studies	Sociology	
Romanic Languages		
Scandinavian Languages		

Courses from other colleges, schools, or departments in the University may be placed under these groups for the convenience of transfer students, and for the allocation of electives. A department may be allocated to one group only.

There are three types of curricula.

1. *Prescribed Departmental Curricula*

Students should elect prescribed departmental majors only after consultation with special departmental advisers. They should consider their aptitude for the particular branch of specialized knowledge and in some cases the outlook for future employment. Courses of study in those departments offering prescribed majors are listed in this bulletin and may be considered as requirements for the bachelor's degree. The degree given will be bachelor of arts or bachelor of science in the chosen department.

2. *Curricula Involving Majors*

Elective departmental majors are more flexible than prescribed majors and should be chosen by those students who have definite leanings toward a particular branch of knowledge, but who for good reasons may not want to follow the prescribed departmental curricula. Such students should have some acquaintance with the principal fields of knowledge and a thorough training in one or two fields.

The minimum requirements for the first two years shall be thirty credits in one group, twenty credits in a second group, and ten credits in the remaining group, the major department determining the choice of courses. The major department, if it so desires, may specify courses within these group requirements, or add further requirements for their particular department and may institute comprehensive examinations in the major subject at the end of the second year.

For the last two years of work the student should consult departmental advisers. At least sixty credits of the total one hundred and eighty shall be in the upper division courses. The degree will be bachelor of arts or bachelor of science depending upon the major selected.

3. *Non-departmental Curricula: General Studies*

Still more flexible than departmental majors are those provided by the Division of General Studies. An effort is made to meet the need of those whose interests are not professional or are too broad for the limitations of a single department by organizing courses of study adapted to the needs of the individual student. This permits drawing upon the resources of several departments or from other colleges as well in building up curricula along the lines of a general education, in special fields of thought or problems of interest, or in a more or less vocational direction.

The minimum requirements for the first two years are fifteen credits in each group. These may be so combined with the remaining credits of free electives that they will provide certain terminal values should the student be unable to complete his work for graduation. In most instances the General Studies major will be assigned to a special adviser in his senior year for guidance in following his major study. At least sixty credits of the total one hundred and eighty shall be in upper division courses. The degree will be bachelor of science or bachelor of arts depending upon the relative preponderance of scientific or non-scientific subjects in the curriculum.

General Requirements

In addition to the choice of one of three types of curricula, the following requirements in English composition, military or naval science, and physical and health education must be included.

Composition 1-2. Ten credits after passing Preliminary Freshman English Test unless exempted in whole or in part. For Composition 2, journalism students substitute Journalism 51.

The physical education requirement for women consists of the health education lecture course, Physical Education 10 or Physical Education 4, 6, 8, for which academic credit is allowed, and five quarters of activity courses to be taken during the first two years.

Two years of military or naval science are required of all male students during the first six quarters of residence in addition to five quarters of physical education and a two-credit academic course in hygiene, Physical Education 15.

MAJOR REQUIREMENTS AND SPECIAL CURRICULA IN THE VARIOUS DEPARTMENTS AND SCHOOLS

Below are gathered together the pre-major and major requirements and set curricula arranged by departments and schools.

ANATOMY

John L. Worcester, Executive Officer, Anatomy Building

(See Biological Sciences, page 14.)

ANTHROPOLOGY

Erna Gunther, Executive Officer, 211 Museum

DEGREE: Bachelor of Arts

	Credits		Credits
51, 52, 53.* Introduc. to Anthropology	15	141. Primitive Literature	3
101. Basis of Civilization *or*		142. Primitive Religion	3 } 6
105. Culture Growth	3	143. Primitive Art	3
111. Indian Cultures of Pacific *or*		150. General Linguistics	3
112. Peoples of the Pacific	3	185. Primitive Social and Political Institutions	3
		193-195. Reading	12
			45

*Students starting major before spring, 1937, should be allowed to substitute other courses amounting to five credits.

This major should be supported by appropriate courses in psychology, zoology, geology, geography according to special interests. It is necessary, if graduate work in the field is contemplated, to take French and German through Scientific Reading or to offer its equivalent.

ARCHITECTURE

Harlan Thomas, Director, Architecture Building

Member of the Association of Collegiate Schools of Architecture

(See School of Architecture bulletin for detailed information.)

DEGREE: Bachelor of Architecture

All students contemplating the study of architecture should confer with the director of the school as to their special qualifications and reasons for entering the professional study of architecture. A student should have credits in plane geometry, algebra through quadratics, trigonometry, physics, and at least two years of foreign language. Thirty-five credits of foreign language are required for graduation, fifteen credits of which are provided in the curriculum.

CURRICULUM IN ARCHITECTURE LEADING TO THE DEGREE OF BACHELOR OF ARCHITECTURE

First Year

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Arch. 1. Architecture Appreciation	2	Arch. 2. Architecture Appreciation	2	Arch. 3. Architecture Appreciation	2
Arch. 4. Elements of Design	4	Arch. 5. Elements of Design	4	Arch. 6. Elements of Design	4
Arch. 7. Graphics	1	Arch. 8. Graphics	1	Arch. 9. Graphics	1
Arch. 47. Elements of Building Construction	3	Arch. 48. Elements of Building Construction	3	Art 34. Drawing and Sculpture	3
Art 32. Drawing and Sculpture	3	Art 33. Drawing and Sculpture	3	Comp. 6. Composition	3
Comp. 4 Composition	3	Comp. 5. Composition	3	Electives	2
Military or Naval Science and Physical Education	+	Military or Naval Science and Physical Education	+	Military or Naval Science and Physical Education	+

Second Year

Arch. 51. History of Architecture	2	Arch. 52. History of Architecture	2	Arch. 53. History of Architecture	2
Arch. 54. Design Grade I	5	Arch. 55. Design Grade I	5	Arch. 56. Design Grade I	5
Math. 54. Architecture Mathematics	3	Math. 55. Architecture Mathematics	3	Math. 56. Architecture Mathematics	3
French 1. Elementary	5	French 2. Elementary	5	French 3. Elementary	5
Military or Naval Science and Physical Education	+	Military or Naval Science and Physical Education	+	Military or Naval Science and Physical Education	+

Third Year

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Arch. 40. Water Color	2	Arch. 41. Water Color	2	Arch. 42. Water Color	2
Arch. 101. History of Architecture	2	Arch. 102. History of Architecture	2	Arch. 103. History of Architecture	2
Arch.104. Design Grade II	5	Arch.105. Design Grade II	5	Arch.106. Design Grade II	5
Arch. 120. Working Drawings	2	Arch. 121. Working Drawings	2	Arch. 122. Working Drawings	2
C.E. 130. Theory of Construction	3	Arch. 117. Building Construction	3	Arch. 118. Building Construction	3
Electives	2	Arch. 125. Pencil Sketching	1	Arch. 126. Pencil Sketching	1

Fourth Year

Arch.107. Design Grade II	5	Arch. 113. Freehand Drawing	3	Arch. 142.* History of Ornament	2
Arch. 112. Freehand Drawing	3	Arch. 141. History of Ornament	2	Arch. 151. History of Architecture	2
Arch. 140. History of Ornament	2	Arch.154. Design Grade II	5	Arch.155. Design Grade II	5
E.E. 105. Electric Wiring	2	C.E. 106. Plumbing and Sanitation	2	M.E. 110. Heating and Ventilation	2
Electives	3	Electives	3	Electives	5

Fifth Year

Arch. 152. Theory of Architecture	2	Arch. 153. Theory of Architecture	2	Arch. 158. Design Grade III	5
Arch. 156. Design Grade III	5	Arch. 157. Design Grade III	5	Arch. 169. Specifications and Materials	2
Art 160. Life Drawing	3	Arch. 168. Specifications and Materials	2	Art 162. Life Drawings	3
E.B. 57. Survey of Business Law	3	Art 161. Life Drawings	3	Electives	5
Electives	2	Electives	3		

*Suggested elective but not required.

The total number of credits must include Physical Education 15 for men, or Physical Education 4, 6, 8, or 10 for women.

ART

Walter F. Isaacs, Director, 401 Education Hall

(See School of Art bulletin for detailed information.)

DEGREE: Bachelor of Arts

The work in the School of Art is designed to offer the fundamentals of art for the benefit of the general student who wishes to gain some appreciation of the field, and for those who expect to pursue a more advanced course. About one year of broad basic training is prerequisite to highly specialized work. Courses of vocational nature are not featured in the beginning inasmuch as the student's progress is limited without the cultivated art sense that is achieved by sound fundamental training. Students who expect to enter one of the professional fields of art should consult their instructors concerning the available opportunities and probability of success.

Advanced standing is granted only on credentials from art schools or university art departments whose standards are recognized by this school. Ordinarily, the presentation of samples of work done will be required before advanced standing will be considered.

All students except those majoring in Public School Art will be required to complete the course as outlined for the first year, after which one of the major curricula may be selected.

REQUIRED FOR THE FIRST YEAR

Art 5, 6, 7. Drawing and Painting..... 9 credits
Art 9, 10, 11. Design..... 9 credits
Comp. 4, 5, 6. English Composition..... 9 credits
or
Comp. 1, 2. English Composition.....10 credits
Modern Foreign Language.....15 credits
Electives ..... 3 credits
Military or Naval Science, and Physical Education.....plus credits

MAJOR IN PAINTING AND DESIGN

Second Year	*Credits*
Art Electives.....	2
Art 53, 54, 55. Design.....	9
Art 56, 57, 58. Drawing and Painting.	9
Electives	25
Military or Naval Science and Physical Education.....	+
	45

Third Year	*Credits*
Arch. 3. Architecture Appreciation....	2
Applied Art (Metal, Jewelry or Pottery)	6
Art 126. History of Painting.....	2
Art 166. Art Structure.....	3
Political Science, or Sociology, or Economics.....	5
Laboratory Science.....	10
Electives	8
Art 160, 161, 162.....	9
	45

Fourth Year	*Credits*
Art 150. Illustration.....	3
Art Electives.....	15
Electives	20
Art 20. Sculpture Appreciation.....	2
Art 163, 164, or 165. Composition....	3
Art. 62. Essentials of Interior Design.	2
	45

Preferred electives for students interested in Costume Design, Art 169, 170, 171; 179, 180, 181; Home Economics courses in clothing and textiles 25, 47, 112, 113, 114; 101, 102; 160, 161 and 198.

The total number of credits must include Physical Education 15 for men, or Physical Education 4, 6, 8, or 10 for women.

MAJOR IN PUBLIC SCHOOL ART

First Year	*Credits*
Art 5, 6, 7. Drawing and Painting....	9
Art 9, 10, 11. Design.....	9
Comp. 4, 5, 6. English Composition....	9
Comp. 1, 2. English Composition.....	10
Sociology 1.....	5
Economics 1.....	5
General Electives.....	6
Educ. 1. Education Orientation.....	2
Military or Naval Science and Physical Education	+

Second Year	*Credits*
Art 53, 54, 55. Design.....	9
Art 56, 57, 58. Drawing and Painting.	9
Arch. 3. Architecture Appreciation....	2
Laboratory Science.....	10
Psychology 1.....	5
Electives	10
Military or Naval Science and Physical Education	+

Third Year	*Credits*
Art 160, 161, 162. Life.....	9
Art 166. Art Structure.....	3
Art 105, 106. Lettering and Commercial Design.....	6
Applied Art (Pottery, Metal or Jewelry)	6
Educ. 60. Secondary Education.....	3
Educ. 90. Measures in Secondary Education	2
Educ. 70. Methods.....	5
Educ. 9. Psychology of Secondary Education	3
Pol. Sci. 1.....	5
Electives	3

Fourth Year	*Credits*
Art 150, 151, 152. Illustration.....	9
Art 163, 164, 165. Composition.....	9
Art 100. Methods.....	2
Art 101. Elements of Interior Design..	2
Art 102. Bookbinding.....	2
Art 126. History of Painting.....	2
Art 20. Sculpture Appreciation.....	2
Electives	17

Fifth Year	*Credits*
Education 120. Educational Psychology	3
Educ. 71, 72. Cadet Teaching.....	8
Phil. 129. Esthetics.....	5
Art Electives	15
Electives	14

Education 60 taken spring quarter. It is necessary to have 20 or 25 credits of major course before taking Education subjects.

Applicants for the five-year normal diploma are required to complete the curriculum of the current catalogue, unless the diploma is granted within five years from date of entrance. For the teacher's course, candidates should have a "B" standing or above in art subjects.

The total number of credits must include Physical Education 15 for men, or Physical Education 4, 6, 8, or 10, for women.

The bachelor's degree will be awarded upon completion of the requirements of the fourth year. The five-year normal diploma will be awarded upon the successful completion of the requirements for the fifth year as listed.

MAJOR IN INTERIOR DESIGN

Second Year	*Credits*
Arch. 1, 2, 3. Appreciation	6
Arch. 4, 5, 6. Elements of Design	12
Arch. 7, 8, 9. Graphics	3
Art 80, 81, 82. Furniture Design	9
Art 83. History of Furniture	2
Electives	13
Military or Naval Science, and Physical Education	+

Third Year	*Credits*
Art 110, 111, 112. Interior Design	15
Art 62. Essentials of Interior Design	2
Economics, Political Science or Sociology	5
Laboratory Science	10
Electives	13

Fourth Year	*Credits*
Art 20. Sculpture Appreciation	2
Art 126. History of Painting	2
Art 172, 173, 174. Interior Design	15
Arch. 101, 102, 103. History of Architecture	6

Fourth Year (Continued)	*Credits*
H.E. 25. Textiles	5
H.E. 47. Home Furnishings	3
Electives	12

The total number of credits must include Physical Education 15 for men, or Physical Education 4, 6, 8, or 10 for women.

MAJOR IN PAINTING OR SCULPTURE

Painting

Second Year	*Credits*
Art 56, 57, 58. Drawing and Painting	9
Art 65, 66, 67. Drawing and Painting	9
Electives	27
Military or Naval Science, and Physical Education	+

Third Year	*Credits*
Art 107, 108, 109. Portrait	9
Art 105, 106. Lettering and Commercial Design	6
Art 126. History of Painting	2
Arch. 3. Appreciation	2
Laboratory Science	10
Economics, Political Science, or Sociology	5
Art 20. Sculpture Appreciation	2
Art Electives	9

Fourth Year	*Credits*
Art 160, 161, 162. Life	9
Art 163, 164, 165. Composition	9
Electives	27

Sculpture

Second Year	*Credits*
Art 56, 57, 58. Drawing and Painting	9
Art 72, 73, 74. Sculpture	9
Electives	27
Military or Naval Science and Physical Education	+

Third Year	*Credits*
Art 20. Sculpture Appreciation	2
Art 103, 104. Pottery	6
Art 122, 123, 124. Sculpture	9
Art 126. History of Painting	2
Arch. 3. Appreciation	2
Laboratory Science	10
Economics, Political Science, or Sociology	5
Electives	9

Fourth Year	*Credits*
Art 132, 133, 134. Sculpture	9
Art 136, 137, 138. Sculpture Composition	9
Art 160, 161, 162. Life	9
Electives	18

Preferred electives—Architectural Design and History of Ornament.

The total number of credits must include Physical Education 15 for men, or Physical Education 4, 6, 8, or 10 for women.

BACTERIOLOGY

B. S. Henry, Executive Officer, 420 Johnson Hall

The major in bacteriology provides training for: (a) a liberal science education; (b) preparation of medical and industrial laboratorians; (c) preparation for advanced work for bacteriologists.

Ten credits of botany or zoology, 10 credits of physics and Chemistry 111 and 132 are required of all bacteriology majors.

A grade point average of 2.5 in courses in chemistry and biology shall be required for admission to Bacteriology 100 and sponsorship by the department. A grade point average of 2.5 in all courses in bacteriology shall be required for graduation.

Transfer students entering the undergraduate curricula shall be considered by a departmental committee and any examinations deemed necessary shall be required.

For the degree of bachelor of science with a major in bacteriology, 36 credits of bacteriology and satisfaction of University College requirements are necessary.

For the degree of bachelor of science in bacteriology the set course below must be followed; the selection of an optional group in the third and fourth years depends upon the type of specialization desired.

DEGREE: Bachelor of Science in Bacteriology

First Year

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Comp. 1. Composition...	5	Comp. 2. Composition..	5	Psych. 1. General.....	5
Chem. 1 or 21. General.	5	Chem. 2 or 22. General.	5	Chem. 23. Qualitative Analysis	5
Zool. 1 or 3. Introduction *or* Bot. 1. Elementary.....	5	Zool. 2 or 4. Introduction *or* Bot. 2. Elementary.....	5	Soc. 1. Survey.....	5
Military or Naval Science and Physical Education	+	Military or Naval Science and Physical Education	+	Military or Naval Science and Physical Education	+

Second Year

Chem. 131. Organic.....	5	Chem. 132. Organic.....	5	Chem. 111. Quantitative Analysis	5
Physics 1 or 4. General.	5	Physics 2 or 5. General.	5	Bact. 100. Fundamentals of Bacteriology	5
Elective*	5	Elective*	5	Elective*	5
Military or Naval Science and Physical Education	+	Military or Naval Science and Physical Education	+	Military or Naval Science and Physical Education	+

*Students planning on taking option "a" in their third and fourth years are urged to use these electives for foreign language courses.

Third Year

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Bact. 105. Infectious Diseases	5	Bact. 102. Sanitary and Clinical Methods.....	5	.....	
Anat. 105. Histology ...	6				
Group Option		*Group Option*		*Group Option*	
(a) Bacteriologist: Biology elective.....	5	(a) Bacteriologist: Chem. 140. Physical..	3	(a) Bacteriologist: Chem. 141. Physical..	3
(b) Medical Laboratorian: Bact. 103. Public Hygiene	5	Biology elective	5	Bact. 104. Serology...	5
(c) Industrial Laboratorian: Bot. 115. Yeasts and Molds	5	Elective	2	Electives	7
		(b) Medical Laboratorian: Elective	5	(b) Medical Laboratorian: Bact. 104. Serology...	5
		Anat. 100. Lecture...	3	Zool. 107. Parasitology	5
		Anat. 101. General....	3	Elective	5
		(c) Industrial Laboratorian: Elective 10		(c) Industrial Laboratorian: Electives 15	

Fourth Year

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Bact. 120. Applied	5	Bact. 121. Applied	5	Elective	5
Elective	5	Elective	5		
Group Option		*Group Option*		*Group Option*	
(a) Bacteriologist:		(a) Bacteriologist:		(a) Bacteriologist:	
Chem. 161. Physiological	5	Chem. 162. Physiological	5	Electives	10
(b) Medical Laboratorian:		(b) Medical Laboratorian:		(b) Medical Laboratorian:	
Bact. 110. Pathology	5	Zool. 121. Microscopic Technique	3	Bact. 122. Applied	5
(c) Industrial Laboratorian:		Elective	2	Elective	5
Bact. 130. Industrial	5	(c) Industrial Laboratorian:		(c) Industrial Laboratorian:	
		Bact. 131. Industrial	5	Bact. 132. Industrial	5
				Bact. 122. Applied	5

The total number of credits must include Physical Education 15 for men, or Physical Education 4, 6, 8, or 10 for women.

BIOLOGICAL SCIENCES

Anatomy—John L. Worcester, Executive Officer, Anatomy Building
Botany—T. C. Frye, Executive Officer, 306 Johnson Hall
Zoology—Trevor Kincaid, Executive Officer, 202 Johnson Hall

DEGREE: Bachelor of Science in Anatomy, Botany or Zoology, depending upon which science is selected

In this curriculum the student must select a major in anatomy, botany or zoology. On selecting his major subject, the student should at once consult his major department, a member of which will act as his adviser. The adviser will plan a special curriculum for the student, fitting him for his chosen work.

First Year

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Comp. 1. Composition	5	Comp. 2. Composition	5		
Botany or Zoology	5	Botany or Zoology	5	Mathematics or Elective	5
Electives	5	**Mathematics or Elective	5	Electives	10
Military or Naval Science and Physical Education	+	Military or Naval Science and Physical Education	+	Military or Naval Science and Physical Education	+

Second Year

Chemistry or Physics	5	Chemistry or Physics	5	Major	5
Major	5	Major	5	Electives	10
Electives	5	Electives	5	Military or Naval Science and Physical Education	+
Military or Naval Science and Physical Education	+	Military or Naval Science and Physical Education	+		

Third Year

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Major	5	Major	5	Major	5
Political Science, Sociology, or Economics	5	Political Science, Sociology, or Economics	5	Electives	10
Electives	5	Electives	5		

Fourth Year

Major	5	Major	5	Electives	15
Electives	10	Electives	10		

**Two and one-half years of mathematics required, which may be taken in high school or University.

The total number of credits must include Physical Education 15 for men, or Physical Education 4, 6, 8, or 10 for women.

BOTANY

T. C. Frye, Executive Officer, 306 Johnson Hall

(See Biological Sciences, page 14)

CHEMISTRY

H. K. Benson, Executive Officer

For students wishing to specialize in chemistry there are curricula in the University College, and a prescribed curriculum in chemical engineering for those who plan to engage in manufacturing industries, leads to the degree of bachelor of science in chemical engineering (see College of Engineering bulletin).

In the University College students may select one of two courses: (1) the prescribed curriculum given below for those who intend to make use of chemistry as a vocation, leading to the degree of bachelor of science in chemistry; (2) the elective curriculum for those who want a general course in chemistry, leading to to the degree of bachelor of science. The elective curriculum is designed for those desiring to major in chemistry as part of a broad general education or in preparation for teaching (see College of Education bulletin), or preliminary to entering medicine. The following courses or their equivalent shall constitute the minimum requirements for the elective major: Chemistry 1 or 21, 2 or 22, 23, 111, 131, 132, 140, 141 (in lieu of 140-141, premedical students may present Chemistry 161-162); 15 credits each in college mathematics and physics; 10 credits in French or German. At least 20 credits in chemistry and 10 credits in physics should be completed among the first 90 credits (end of the sophomore year). The intention of the student to graduate with a major in chemistry should be declared not later than the end of the sophomore year.

For all chemistry majors in the University College, a grade point average of 2.5 in chemistry courses and a grade point average of 2.5 in all courses, shall be required for graduation. Upon completion of the first 90 credits (equivalent to the work of the freshman and sophomore years) every student will be passed upon by a departmental committee which shall consider his academic record and other qualifications, and give any comprehensive examinations deemed necessary, to determine whether or not the department desires to sponsor the student in further work in his curriculum. All students from other schools entering the undergraduate curricula shall first be considered by a departmental committee, which shall pass on the credentials presented in chemistry courses and give any examinations that may be deemed necessary to determine the proper place to begin courses in this department.

DEGREE: Bachelor of Science in Chemistry

First Year

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Chem. 1 or 21. General.	5	Chem. 2 or 22. General..	5	Chem. 23. Qualitative Analysis.....	5
Math. 4. Plane Trigonometry.....	5	Math. 5. College Algebra	5	Math. 6. Analytical Geometry.....	5
Comp. 1. Composition...	5	Comp. 2. Composition...	5	[1]Electives.....	5
Military or Naval Science and Physical Education +		Military or Naval Science and Physical Education +		Military or Naval Science and Physical Education +	

[1]Options
(a) Geology or Mineralogy
(b) Mechanical Drawing
(c) Biological Science

Second Year

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Chem. 109. Quantitative Analysis	5	Chem. 110, Quantitative Analysis	5	Chem. 101. Advanced Qualitative Analysis	5
Physics 1 or 97. General	5	Physics 2 or 98. General.	5	Physics 3 or 99. General.	5
Math. 107. Calculus	5	Math. 108. Calculus	5	Math. 109. Calculus	5
Military or Naval Science and Physical Education	+	Military or Naval Science and Physical Education	+	Military or Naval Science and Physical Education	+

Third Year

Chem. 131. Organic	5	Chem. 132. Organic	5	Chem. 133. Organic	5
[2]Electives	5	[2]Electives	5	[2]Electives	5
Group Option		*Group Option*		*Group Option*	
(a) General:		(a) General:		(a) General:	
[3]Electives	5	[3]Electives	5	[3]Electives	5
(b) Industrial:		(b) Industrial:		(b) Industrial:	
Chem. 121. Industrial.	5	Chem. 122. Industrial.	5	Chem. 123. Industrial.	5
(c) Biochemical:		(c) Biochemical:		(c) Biochemical:	
Physiol. 151. Advanced *or* Bact. 101. General.	5	Physiol. 152. Advanced *or* Bact. 102. Sanitation	5	Physiol. 153. Advanced or Bact. 103. Public Hygiene	5
(d) [4]Oceanographical:		(d) [4]Oceanographical:		(d) [4]Oceanographical:	
Physics 101. Introduction Modern Theories.	3	Physics 102. Introduction Modern Theories.	3	Electives	5
Elective	2	Elective	2		

Fourth Year

Chem. 181. Physical and Theoretical	5	Chem. 182. Physical and Theoretical	5	Chem. 181. Physical and Theoretical	5
[3]Electives	2	[3]Electives	2	*Group Option*	
Group Option		*Group Option*		(a) General:	
(a) General:		(a) General:		Electives	10
Electives	8	Electives	8	(b) Industrial:	
(b) Industrial:		(b) Industrial:		Electives	10
Chem. 171. Chemical Engineering	5	Chem. 172. Chemical Engineering	5	(c) Biochemical:	
176. Chemical Engineering Thesis	3	177. Chemical Engineering Thesis	3	Chem. 163. Physiological Chemistry	3
(c) Biochemical:		(c) Biochemical:		Electives	7
Chem. 161. Physiological Chemistry	5	Chem. 162. Physiological Chemistry	5	(d) [4]Oceanographical:	
Electives	3	166 Biological Preparations	3	Electives	10
(d) [4]Oceanographical:		(d) [4]Oceanographical:			
Chem. 161. Physiological, *or* elective	5	Chem. 162. Physiological, *or* elective	5		
Elective	3	Elective	3		

[2]In addition to the subjects specially listed above, 10 credits in either French or German are required to be completed before the end of the third year.

[3]Chem. 190 and 191 (History of Chemistry) are suggested as electives in either the junior or senior year.

[4]Twenty-five credits of electives must be taken in the biological sciences or geology.

The total number of credits must include Physical Education 15 for men, or Physical Education 4, 6, 8, or 10 for women.

CLASSICAL LANGUAGES AND LITERATURE

(Latin and Greek)

Thomas K. Sidey, Executive Officer, 201 Denny Hall

DEGREE: Bachelor of Arts

LATIN

For a major at least 36 credits chosen from courses other than 1-2, 3, 4, 5, 6, 11, 13. Fifty per cent of the credits in the major must be in upper division courses. A student majoring in Latin must take at least 15 credits of Greek. At the end of the senior year all majors must take the senior examination.

GREEK

For a major at least 36 credits chosen from courses other than 1-2, 11, 13, 15, 17, 18. At least fifty per cent of the credits must be in upper division courses. Two years of Latin in high school or Latin 1-2, 3 in the University. A reading knowledge of German is advisable. Senior examination required at the end of the senior year.

ECONOMICS

S. J. Coon, Dean, College of Economics and Business, 204 Commerce Hall

DEGREE: Bachelor of Arts

Majors in economics in University College must meet the general requirements of that college. They must take Economics and Business 1, 2, 100, 105, 185, 181, or 187, and four additional courses selected from the list below.

*103. Money and Banking
*104. Public Service Industries
*105. Economics of Labor
*106. Economics of Marketing & Advertis.
*107. World Economic Policies
*108. Risk and Risk Bearing
*109. Principles of Real Estate
120. Business Organization & Combination
121. Corporation Finance
125. Advanced Money and Banking
131. Principles of Foreign Trade
141. Regulation of Public Utilities
142. Adv. Economics of Public Utilities
161. Labor Legislation
162. European Labor Problems
163. Economics of Consumption
164. Labor Arbitration
171. Public Finance and Taxation I
172. Public Finance and Taxation II
175. Business Fluctuations
181. Economic Development of the U.S.
185. Advanced Economic Theory
187. Development of Econ. Thought
188. Institutional Economics

*Courses starred are intermediate courses introductory to special fields and may be taken in the third quarter of the sophomore year.

ENGLISH

(Literature, Drama, Public Speaking and Composition)

D. D. Griffith, Executive Officer, 107 Parrington Hall

DEGREE: Bachelor of Arts

The schedules given below present the courses required in addition to Composition 1 and 2, which are general courses and may not be counted toward a major or minor in English.

Substitutions in the following lists are allowed to fit a student's plan of study if approved in writing by the Department of English.

LITERATURE

The upper division major courses in Literature are divided into the following groups:

Group I

150, 151. Old and Middle English
153, 154. English Literature: 1476-1642

Group II

144, 145. Eighteenth Century Literature
167, 168. Seventeenth Century Literature
170, 171. Shakespeare

Group III

161, 162. American Literature
174, 175. Late Nineteenth Century Literature
177, 178. Early Nineteenth Century Literature

Major Requirements

	Credits
57. Introduction to Poetry	5
58. Introduction to Fiction	5
64, 65. Literary Backgrounds	10
One major course from each major group	15
A continuation of one of the above major courses	5
Electives in English	5
Senior Major Examination	0
	45

DRAMA

The Division of Drama, in addition to the required courses listed below, offers courses in Stage Lighting, Radio Acting and Production, Dramatic Writing for Radio, advanced courses in Scene and Costume Design and Acting, and a course in Puppetry.

Major Requirements

	Credits
Drama 1, 2. Introduction to the Theatre	4
Speech 43. The Speaking Voice	3
Drama 47, 48. Theatre Speech	4
Drama 51, 52, 53. Acting	6
Drama 103. Scene Construction	3
Drama 104. Scene Design	3
Drama 105. Theatrical Costume Design and Construction	3
Drama 106. Make-up	3
Drama 121, 122, 123. Advanced Acting and Directing (2 quarters)	6
Drama 127, 128, 129. History of the Theatre	6
Drama 151, 152, 153. Representative Plays	9
Drama 197. Theatre Organization and Management	2
Senior Major Examination	0
	52

Normally supplementary studies in literature are required which should include Literature 58, 64, 65, and two courses from 161, 162, 170, 171, 174, 175, 177, 178.

SPEECH

Work in the Division of Speech is designed to contribute both to the practical needs of the individual and to the attainment of such general educational objectives as personality adjustment, analytical power, clear thinking and emotional control.

Courses in speech fall into five main groups:

Group I
Public Address and Argumentation
Courses 38, 40, 41, 101, 103, 138, 139, 188, 217, 218

Group II
Voice Science and Voice Training
Courses 43, 44, 187, 214

Group III
Oral Interpretation of Literature
Courses 79, 179, 215

Group IV
Speech Pathology and Correction
Courses 19, 190, 191, 192, 216

Group V
General and Special Courses
Courses 50, 51, 55, 161-162-163, 186, 220, Education 75X

Majors in speech are offered two schedules: one for those who desire the training for its cultural values or for some definite speech activity and the other for those who wish to prepare for teaching. For specific information regarding the requirements of a teaching major or minor in speech, see the bulletin of the College of Education and consult the Division of Speech. The following schedule offers an academic major in speech and is designed for those not selecting the teaching major.

Major Requirements

	Credits
40. Essentials of Speaking	5
43. The Speaking Voice	3
186. Backgrounds of Speech	5
191. Speech Correction	3
Approved Speech electives (18 credits upper division)	26
Comprehensive Senior Examination	0
	40

Speech majors should elect the following courses as a part of the University College requirements:

Literature 64, 65. Literary Backgrounds	10
Literature 117. History of the English Language	5
Psychology 1. General Psychology	5
Philosophy 2. Introduction to Social Ethics	5
Approved studies in a subject other than speech (10 credits Upper Division)	25

Students whose major work may lie in other fields but who are interested in the cultural and professional values to be gained through the study of speech may complete a minor which includes twenty-five credits of approved courses, at least ten of which should be upper division.

COMPOSITION

As the individual student objectives are so varied, no formal major in composition is outlined. In general the requirements include Literature 57, 58, 64, 65, and one course from each of the major groups. The remainder of forty-five credits is selected from the following courses.

Composition 51, 52, 53. Advanced Composition
Composition 54, 55, 56. Advanced Composition: Criticism and Narration
Composition 61, 62, 63. Verse Writing
Composition 67, 68, 69. English Prose Style
Composition 110, 111, 112. Advanced Verse Writing
Composition 156, 157, 158. Advanced Composition: Narration
Composition 184, 185, 186. Professional Creative Writing
Drama 111, 112, 113. Playwriting
Drama 144, 145, 146. Dramatic Writing for Radio
Journalism 173, 174-175. Short Story Writing.

FISHERIES

W. F. Thompson, Acting Director, 1 Fisheries Building

DEGREE: Bachelor of Science in Fisheries

(See School of Fisheries bulletin for detailed information)

First Year

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Comp. 1. Composition	5	Comp. 2. Composition	5	Elective	5
Zool. 1. Animal Biology	5	Zool. 2. Animal Biology	5	Zool. 5. Embryology	5
Chem. 1 or 21. General	5	Chem. 2 or 22. General	5	Chem. 23. Qualitative Analysis	5
Military or Naval Science and Physical Education	+	Military or Naval Science and Physical Education	+	Military or Naval Science and Physical Education	+

Second Year

*German or French	5	*German or French	5	Elective	5
Zoology or Fisheries (see options A, B, or C)	5	Zoology or Fisheries (see options A, B, or C)	5	Zoology or Fisheries (see options A, B, or C)	5
Math. 4 or 31	5	Math. 5 or 32	5	Math. 6 or 33	5
Military or Naval Science and Physical Education	+	Military or Naval Science and Physical Education	+	Military or Naval Science and Physical Education	+

*German is recommended. Any language substitution must be approved by the School of Fisheries.

NOTE: These requirements are listed in the order in which it is recommended that they be taken. They may be postponed and subjects required or permitted in the third and fourth years may be substituted, on approval by the School of Fisheries.

The total number of credits must include Physical Education 15 for men, or Physical Education 4, 6, 8, or 10 for women.

Third and Fourth Years

One of the following optional courses should be chosen: A, General Fisheries Biology; B, Life History and Conservation, Vertebrates or Invertebrates; C, Hatchery Biology, the Propagation and Rearing of Fish. Under each option five hours of fisheries are required each quarter and in addition Fisheries 195, 196, 197, Seminar, are required in the fourth year. The remaining elective credit hours under option B and C must be chosen from subjects recommended by the School of Fisheries.

Option A. *General Fisheries Biology.* Fish. 101, Comparative Anatomy of Fishes; 102, 103, Classification and Identification; 105, 106, 107, Commercial Aquatic Invertebrates; are required under this option. A student must earn not less than 36 hours nor more than 60 in fisheries and not over 96 credits in any two departments. The remaining elective credits must be approved by the School of Fisheries.

Option B. *Life History and Conservation.* Fish. 101, Comparative Anatomy of Fishes; 102, 103, Classification and Identification; 105, 106, 107, Commercial Aquatic Invertebrates; and 157, 158, Age, Growth, Migrations, and Races are required. 125, Spawning Habits and 126, Early Life History of Fishes may be substituted for 157 and 158. In addition 15 credits of mathematics besides that specified in the second year are required.

Option C. *Hatchery Biology. Propagation and Rearing of Fish.* Fish. 101, Comparative Anatomy of Fishes; 102, 103, Classification and Identification; 105, 106, 107, Commercial Aquatic Invertebrates; 151, Natural Fish Foods, Water Supplies; 152, Propagation of Fresh Water Fishes; 153, Hatchery Biology; 154, Fish Diseases; are required. Fish. 125 or 157, may be substituted for 103. Chem. 144, Physiological; Bacteriology 101, General; are required.

Recommended Electives. In options B, and C, any fisheries, zoological or oceanographical course may count as an elective. The following additional subjects are recommended as electives: *Chemistry:* 109, 110, or 111, Quantitative Analysis; 131, 132, 133, Organic; 144, Physiological. *Mathematics:* 13, Statistics; 41, 42, or 107, 108, 109, Calculus. *Bacteriology:* 101, General; 102, Sanitary. *Physics:* 1, 2, 3, or 4, 5, 6, General. *Physiology:* 53, 54, General. *Geology:* 1, Earth Science, or 6, Physiography, or 7, History of Geology. *Botany:* 3, Classification.

GENERAL LITERATURE

Louis P. deVries, Adviser, 209 Denny Hall

Degree: Bachelor of Arts

A major in general literature requires a reading knowledge of two foreign languages (the satisfaction of this requirement to be determined by the department), General Literature 101, 191, 192, 193, and sufficient other courses to make a total of from 36-60 credits.

In preparation for this major and for General Literature 101, the student should earn 18 lower division credits from the following groups with not more than ten credits in any one group.

I. Greek 15, 113.

II. Oriental Studies 50, 51, 52, 130, 170, 171.

III. Literature 64, 65, 66, 67.

IV. German 55, 70, 106, 107, 108; Scandinavian Languages 109, 110, 111, 180, 181, 182.

V. French 118, 119, 120; 34, 35, 36; 134, 135, 136; Spanish 118, 119, 120; Italian 181, 182, 184.

VI. Liberal Arts 11; Philosophy 123.

The upper division courses listed above may be entered by qualified sophomores who have obtained the permission of the instructors.

The remaining courses offered for this major should be arranged in consultation with a major adviser. The plan of the work should include a survey of at least one national literature, some studies in each of the following groups, and a special knowledge of one of them:

I. Oriental Literature; II. Greek and Latin Literature; III. Medieval and Renaissance Literature; IV. Classic and Romantic Movements in Modern Literature.

GENERAL STUDIES

H. B. Densmore, Chairman, 211 Denny Hall

DEGREE: Bachelor of Arts or Bachelor of Science

Enrollment in General Studies is open to students who fall within the following classifications: (1) those who can spend only a limited time in the University and wish guidance in making up a program of work from this or other colleges adapted to their special needs; (2) students who wish a year or two of general work prior to enrolling in some departmental major; (3) those who wish to follow through to graduation the study of a field of knowledge or a subject of special interest not provided for in the usual departmental curricula. To be admitted to this division the student must have maintained at least a "C" average in his immediately preceding educational experience.

The requirements for graduation in General Studies are:

1. A 15-15-15 distribution of credits in the lower division with a grade point average of 2.0.

2. The early selection, with the help of an adviser, of a special field or subject of interest as a major to focalize and give direction to the student's work. The major in a special field will approximate the work of the liberal arts college. The special fields at present are:

Social Science

Language and Literature

Physical Science

Biological Science

Fine Arts

Special subjects may include any phase of thought or vocational objective from any branch of knowledge that can be handled effectively in General Studies with the help of the instructors in the other departments concerned.

3. Formulation of a curriculum covering the final two years or more of the course, to be recommended by the adviser and approved by the Council.

4. Completion of at least 36 credits in the chosen field or subject. Because work will usually be drawn from several contributary departments or colleges, the number of credits allowed in this major will often exceed the maximum of 60 usually allowed.

5. Completion of at least 60 upper division credits. If the student chooses a special subject, 30 must fall within the compass of that subject; if a special field, at least 20 must fall within that field, and 10 in another field.

6. A senior study embodying the reactions of the student to the work done in pursuing his major interest.

Prospective majors should consult with the chairman for assignment to an adviser on courses of study and major interest. Suggestive curricula are kept on file for examination in his office.

A New Program in General Studies for the Freshman Year

In the fall of 1937, a new type of freshman program will be inaugurated for a group of 150 freshmen. The general plan is to have the students pursue one course intensively for a quarter. The work in English Composition will be carried on in connection with the intensive course. The following intensive courses will be offered next fall:

AUTUMN

German.....Professor Frederick W. Meisnest
French.....Miss Clotilde Wilson, Instructor
Spanish.....Assistant Professor William E. Wilson

WINTER

History.....Assistant Professor Giovanni Costigan
Political Science.....Associate Professor Edmund F. Spellacy and Maxim von Brevern, Instructor
Economics.....Assistant Professor William S. Hopkins

SPRING

Mathematics.....Professor Ray M. Winger
Geography.....Assistant Professor Albert L. Seeman
Geology.....Assistant Professor J. Hoover Mackin

The work in Composition will be in charge of Mrs. Margaret C. Walters, Mrs. Jennie Burgess and Graham Dressler, Associates in English.

The credit earned will be 10 credits for the intensive course and 5 credits for the composition per quarter plus the usual credits in physical education and military science.

The course is open to all graduates of accredited high schools. Admission to this program will be by permission only. Applications should be directed, together with the usual credentials, to H. B. Densmore, the chairman of General Studies or Edward H. Lauer, the dean of the college.

GEOGRAPHY

Howard H. Martin, Executive Officer, 29 Johnson Hall

DEGREE: Bachelor of Arts

Major in Geography

	Credits
Geog. 1-101. Regional Geography *or*	
Geog. 7. Economic Geography	5
Geog. 11-111. Climate	5
Geog. 121. Regional Climatology *or*	
Geog. 2. Physical Geography	5
Geog. 102. North America	5
Geog. 155. Influences of Geographic Environment	5
Geog. 170. Conservation of Natural Resources	5
Approved geography electives	15
	45

Majors should elect courses in economics, political science, history, sociology, and anthropology. Electives to be selected with advice of head of department.

GEOLOGY

G. E. Goodspeed, Executive Officer, 114 Johnson Hall

DEGREE: Bachelor of Science in Geology

First Year

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Chem. 1 or 21. General.	5	Chem. 2 or 22. General.	5	Chem. 23. Qualitative Analysis	5
Math. 4. Trigonometry..	5	Math. 5. College Algebra	5	Comp. 1. Composition...	5
G.E. 1. Engineering Drawing	3	G.E. 2. Engineering Drawing	3	G.E. 21. Plane Surveying	3
Elective	2	Elective	2	G.E. 3. Drafting Problems	3
Military or Naval Science and Physical Education +		Military or Naval Science and Physical Education +		Military or Naval Science and Physical Education +	

Second Year

Geol. 5. Rocks and Minerals	5	Geol. 6. Elementary Physiography	5	Geol. 7. Historical Geology	5
Physics 1. General	5	Physics 2. General	5	Geol. 121. Mineralogy...	5
Zool. 1. Elementary	5	Lit. 20. Survey of American Literature	5	Comp. 2. Composition...	5
Military or Naval Science and Physical Education +		Military or Naval Science and Physical Education +		Military or Naval Science and Physical Education +	

Third Year

Geol. 123. Optical Mineralogy	5	Geol. 124. Petrography and Petrology	5	Geol. 125. Petrography and Petrology	5
Pol. Sci., Soc., Geog., or other Group 2 Electives	5	Geol. 130. Paleontology.	5	Geol. 132. Invertebrate Paleontology	5
French or German 1	5	French or German 2	5	French or German 3	5

Fourth Year

Geol. 101. History of Geology	3	Geol. 126. Sedimentary Petrography	5	Geol. 190. Thesis	5
Pol. Sci. Soc., Geog., or other Group 2 Electives	5	Geol. 127. Ore Deposits.	5	Geol. 122. Field Methods	5
*Professional electives..	7	Geol. 142. Structural Geology	5	*Professional elective...	5

*For those who desire to specialize in stratigraphical geology, the professional electives should include such courses as mesozoic geology, tertiary geology and stratigraphy. For petrological geology, courses in physical chemistry and quantitative analysis are essential, and for mining geology, courses in mining engineering, metallurgy and metallurgical analysis. For physiographic geology, courses in map interpretation, geomorphology and glacial geology are necessary.

The total number of credits must include Physical Education 15 for men, or Physical Education 4, 6, 8, or 10 for women.

A fifth year may be necessary for the completion of the above schedule, if all of the important professional electives are to be included.

GERMANIC LANGUAGES AND LITERATURE

J. H. Groth, Executive Officer, 204 Denny Hall

DEGREE: Bachelor of Arts

Students becoming majors or minors in the German department should have had college German 1, 2, 3, plus 3 credits of second year German, or German 1, 2, 3, with grade A in German 3, or the high school equivalent to be determined by the Executive Officer of the department. For the departmental major at least 36 credits in the department are required beyond this prerequisite.

Students are advised to distribute their major over their entire four-year college course to avoid periods of disuse, and to give ample time to their supporting subjects.

In the humanities, for purposes of orientation, the department offers courses in English translation. Here, four or five aspects of Germany's intellectual and literary history have been singled out for study with the hope that they may prove particularly fruitful when understood.

Majors preparing for library work may substitute literary courses in German (not courses offered in translation, however) for the departmental major requirements, German 110, 111, 112, 118. These latter are demanded of prospective teachers (see College of Education bulletin, major and minor requirements).

	Credits
Ger. *4, 10, 30, 60. Second Year work, about	5
Ger. 113, 114, 115. U.D. Scientific German	at least 23
Ger. 119. History of German Language	
Ger. 120. Introduction to Schiller	
Ger. 121. Introduction to Goethe	
Ger. 122. Introduction to Keller	
Ger. 123. Introduction to Heimatkunst	
Ger. 124. Nineteenth Century Novelle	
Ger. 125. Recent Novellen	
Ger. 133-135. Modern Novels	
Ger. 136-138. Modern Drama	
Ger. 139, 140. Studies in German Literature	
Ger. 141. History of German Literature	
Ger. 142. Lyrics and Ballads	
Ger. 150. Lessing	
Ger. 152. Goethe's Lyric Poetry	
Ger. 153. Goethe's Dramatic Works	
Ger. 165. Schiller's Historical Dramas	
Ger. 166, 167. Goethe's Faust, Parts I and II	
Ger. 110, 111, 112. Grammar and Composition	6
Ger. 118. Phonetics	2
Minimum total	36

*Two credits of this 5-credit course can count toward a major.

HISTORY

Edward McMahon, Executive Officer, 202 Denny Hall

DEGREE: Bachelor of Arts

For a history major, 50 credits including History 1-2 as required courses. At least fifty per cent must be in upper division courses. Electives on advice of head of department.

HOME ECONOMICS

Effie I. Raitt, Director, 201 Home Economics Hall

(See School of Home Economics bulletin for detailed information)

Home economics is primarily an applied field of knowledge. Its subject matter is based upon factual material and laws found in physical sciences, social sciences, and fine arts. The applications of the principles of these supporting subjects define the techniques, determine the standards, and form the basis for the choices which modern living makes necessary. The School of Home Economics is concerned with a liberal education no less than with providing a professional training. Therefore, requirements include, in addition to courses in home economics, work in the humanities and in social and basic sciences. Home economics assembles from these fields of knowledge material which will enable the individual to better understand his physical and social environment, endeavors to show the application of such knowledge in terms of human needs and to provide an outlet for his abilities in constructive vital work. Home economics affords an insight into the cultures of other people, particularly in the

field of history of costume, costume design and historic textiles. Scientific courses may lay the foundation for professional work, aid in developing critical judgment and promote the habit of seeking cause and effect relationships.

Five years of college training is required for the five-year normal diploma, requisite for high school teaching in the State of Washington. Completion of the teacher training curriculum in general home economics, together with the completion of the requirements for the five-year normal diploma, entitles a graduate to a certificate to teach vocational education in any high school which is subsidized by the federal government under the Smith-Hughes, George-Deen Acts.

The University Commons and halls of residence are operated under the supervision of the School of Home Economics. They are used as practice fields for students in institution administration.

Three professional curricula, a non-professional major and a number of service courses for those majoring in another subject are offered.

Professional Curricula

The professional curricula require the completion of 225 plus 5 credits and lead to the professional degree of bachelor of science in home economics. They are:

a. Teacher Training
b. Institution Administration
c. Textiles, Clothing and Fine Arts.

Students may apply for admission to one of the professional curricula after the completion of 75 credits. The basis for admission will be scholarship, maturity and promise of success.

Major

A major in home economics is offered for which the degree of bachelor of science is awarded. A total of 180 plus 5 credits is required. The minimum requirements for the first two years are those established in the University College in curricula involving majors (see page 7).

Courses in home economics required for a major include the following: Home Economics 12, 15, 25, 47, 107-108, 141, 144, 145, 190, and their prerequisites.

In addition to the major and group requirements, the University College requirements in English composition, military or naval science, and physical and health education must be included.

Service Courses

A number of courses in home economics with a minimum of prerequisites are offered for those who are majoring in another department.

Service courses in home economics are of two types:

A. Supporting courses for other subjects—
Home Economics 9 and 105 for Nursing Education majors.
Home Economics 104 and 109 for Social Service majors.

B. Courses for free election by any students—
Home Economics 5, 12, 15, 24, 25, 41, 104, 109, 131.

Certain courses are open to majors and to non-majors. The latter should consult the instructor before registering. For art majors, 25, 47, 133 and other courses in costume design and in textiles.

PROFESSIONAL CURRICULA IN HOME ECONOMICS

(A minimum of 20 credits of language, literature, or history is required for graduation in all professional curricula.)

*Freshman Year Curriculum for Students Planning to Enter the School of Home Economics

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Comp. 1	5	Comp. 2	5	Physiology 7. Elementary Physiology	5
P.E. 10. Health Educ.	5	Chem. 1 or 21. General Chemistry	5	Chem. 2 or 22. General Chemistry	5
Elective in Language, Literature or History.	5	Elective in Language, Literature or History.	5	Art 9. Design	3
Physical Education	+	Physical Education	+	H.E. 7. Introduction to Home Economics	2
				Physical Education	+

*In the Teacher Training Curriculum, freshman registration may include the following: Arch. 1 and 2, *Architecture Appreciation;* Nurs. Educ. 5, *Home Nursing;* Educ. 1, *Education Orientation.*

In the Textiles, Clothing and Fine Arts Curriculum, freshman registration should include: Art 5, 6, *Drawing;* Art 10, 11, *Design;* History 1 and 2, *Medieval and Modern European History.* Chemistry and electives may be postponed until the sophomore year.

TEACHER TRAINING

Second Year

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Physics 89. Physics of the Home	4	Physics 90. Physics of the Home	3	Physics 91. Physics of the Home	3
Chem. 135. Organic	5	Chem. 136. Organic	5	H.E. 12. Costume Design and Construction	5
H.E. 15. Food Preparation	5	H.E. 25. Textiles	5	E.B. 1. Survey of Economics & Business.	5
Arch. 1. Architecture Appreciation	2	Arch. 2. Architecture Appreciation	2	Nurs. Educ. 5. Home Nursing	3
Physical Education	+	Physical Education	+		

Third Year

H.E. 107. Nutrition	5	H.E. 108. Nutrition	3	Soc. 1. Survey of Sociology *or*	
H.E. 115. Food Preparation	3	H.E. 116. Food Preparation	5	Soc. 150. General Sociology	5
H.E. 112. Costume Design and Construction	3	H.E. 113. Costume Design and Construction	3	H.E. 47. Home Furnishing	5
Educ. 60. Principles of Secondary Education, Senior High School	3	Psychology 1. General Psychology	5	H.E. 114. Costume Design and Construction	3
				Zoology 17. Eugenics	2

Fourth Year

Educ. 90. Measurement in Secondary Educ.	2	H.E. 148. Home Management House	2	Educ. 75NA. Home Economics	3
Educ. 9. Psychology of Secondary Education.	3	H.E. 144. Household Economics	3	H.E. 145. Family Relationships	3
H.E. 141. Household Management	5	Educ. 70. Introduction to H. S. Procedure	5	H.E. 190. Child Nutrition and Care	5
Bact. 1. General Bacteriology	5	Soc. 112. The Family	5	Electives	3

Fifth Year

Political Science	5	Philosophy	5	S.W. 176. The Rural Community	5
Educ. 72. Cadet Teaching	3	Educ. 71. Cadet Teaching	5		

(Electives to make a total of 225 credits.)

Preferred electives: Language; Literature; History; Psych. 131, *Child Psychology;* Geog. 70, *World Foods and Fibers.*

INSTITUTION ADMINISTRATION

Second Year

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Physics 89. Physics of the Home	4	Physics 90. Physics of the Home	3	Physics 91. Physics of the Home	3
Chem. 135. Organic	5	Chem. 136. Organic	5	H.E. 131. Clothing Selection	2
H.E. 15. Food Preparation	5	H.E. 25. Textiles	5	E.B. 1. Survey of Economics & Business	5
Elective	2	Zoology 17. Eugenics	2	Elective	5
Physical Education	+	Physical Education	+		

Third Year

H.E. 107. Nutrition	5	H.E. 108. Nutrition	3	Chem. 144. Physiological	5
H.E. 115. Food Preparation	3	H.E. 120. Advanced Food Preparation	3	E.B. 62. Principles of Accounting	5
Soc. 1. Survey of Sociology *or* Soc. 150. General Sociology	5	Psychology 1. General Psychology	5	H.E. 121. Institution Food Preparation	5
Elective	5	H.E. 47. Home Furnishing	5		

Fourth Year

H.E. 124. Institution Management II	3	H.E. 122. Institution Purchasing	3	H.E. 145. Family Relationships	3
H.E. 141. Household Management	5	H.E. 144. Household Economics	3	E.B. 2. General Economics	5
Bact. 101. General Bacteriology	5	H.E. 190. Child Nutrition and Care	5	H.E. 191. Diet Therapy	3
Elective	2	Soc. 112. The Family	5	Elective	3

Fifth Year

Educ. 75NB. Home Economics	3	Supervised Field Work	
H.E. 175. Institutional Equipment	3		
H.E. 123. Institutional Management I	3		
Electives	6		

Preferred electives: See Teacher Training Curriculum.

TEXTILES, CLOTHING AND FINE ARTS

Second Year

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
H.E. 25. Textiles	5	H.E. 12. Costume Design and Construction	5	H.E. 47. Home Furnishings	5
†French	5	†French	5	†French	5
Elective	5	Chem. 1 or 21. General Chemistry	5	Chem. 2 or 22. General Chemistry	5
Physical Education	+	Physical Education	+		

Third Year

H.E. 112. Costume Design and Construction	3	H.E. 113. Costume Design and Construction	3	H.E. 114. Costume Design and Construction	3
E.B. 1. Survey of Economics & Business	5	Psychology 1. General Psychology	5	Soc. 1 or 150. Survey of Sociology or General Sociology	5
Art 169. Costume Design	2	Art 170. Costume Design	2	Art 171. Costume Design	2
Arch. 1. Architecture Appreciation	2	Arch. 2. Architecture Appreciation	2	Elective in Literature, or History	5
Elective in Language, Literature or History	3	Elective in Language, Literature or History	3		

†For students with a reading knowledge of French, electives may be substituted.

Fourth Year

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
H.E. 144. Household Economics	3	H.E. 145. Family Relationships	3	H.E. 133. History of Costume	5
H.E. 188. Advanced Textiles	3	H.E. 198. Historic Textiles	3	Art Elective	3
Phil. 1, 2, or 129. Introduction to Philosophy, Introduction to Social Ethics, or Esthetics	5	Art elective	3	Elective	7
Art Elective	4	Soc. 112. The Family	5		

Fifth Year

H.E. 160. Advanced Costume Design and Construction 5	H.E. 161. Advanced Costume Design and Construction 5	Academic electives or Field Work 15
History 114. Culture of the Renaissance 5	Elective 10	
Elective 5		

Preferred electives: E.B. 105. *Economics of Labor;* 106. *Economics of Marketing and Advertising;* 135. *Retailing.* History 117, *France from Reformation to Revolution;* 118. *Medieval Civilization.* H.E. 207. *Research in Textiles;* 211, and 212. *Research in Costume Design.* Art 53, 54, and 55. *Advanced Design;* 62. *Essentials of Interior Design;* 83, *History of Furniture;* 101. *Elements of Interior Design;* 179, 180, and 181. *Advanced Costume.* Botany 102, *Textile Fibers.*

JOURNALISM

Vernon McKenzie, Director, 109 Commerce Hall

(See School of Journalism bulletin for detailed information.)

The curriculum of the School of Journalism leads to the degree of bachelor of arts, major in journalism, for which 180 credits must be obtained, plus the University requirements in military or naval science and physical education. A student seeking a degree of bachelor of arts, major in journalism, is required to complete the University College lower division requirements; 7 credits of specified pre-journalism; 37 credits of upper division journalism (given in the non-elective third year); 30 credits of English; 8 credits of specified political science (3 credits of which are included in the non-elective third year); 5 credits of specified geography (also in the third year work); and 20 credits in one of the fields of sociology, political science, psychology, history, geography or economics, or in some other field only by special permission of the heads of the departments concerned.

Of the 30 credits required in English, 25 are specified as follows: Composition 1, 5 credits; Speech 38 or 40, 5 credits; Literature 57, 64 and 65, 15 credits. Political Science 1, 5 credits, is required before taking the journalism third year. An average class grade of B or better must be earned in all journalism subjects.

Required Journalism Courses

		Credits
1.	Journalism as a Profession	1
2.	The Newspaper and Society	1
51.	News Writing	5
147.	Fundamentals of Journalism	Third Year 37
148.	Fundamentals of Journalism	
149.	Fundamentals of Journalism	

MATHEMATICS

A. F. Carpenter, Executive Officer, 147 Philosophy Hall

Degree: Bachelor of Arts or Sciences

For a major in mathematics the following courses in mathematics are required.

Prerequisite, ½ unit advanced algebra, ½ unit solid geometry in high school or university.

	Credits
4. Plane Trigonometry	5
5. College Algebra	5
6. Analytical Geometry	5
107, 108, 109. Differential and Integral Calculus	15
Electives (upper division)	6
Minimum total credits	36

Degree: Bachelor of Science in Mathematics or Bachelor of Arts in Mathematics.

Minimum requirements for the degree of Bachelor of Science in Mathematics. In addition to the regular University requirements in English composition, physical education and military or naval science, the student shall earn the indicated number of credits in the following groups:

Subjects	*Credits*
Mathematics, an academic major plus six approved upper division credits	42
Physics, chemistry	15
Astronomy, geology, zoology, botany	15
Language,† literature, art, architecture, music	15
History, political science, economics, sociology, psychology, philosophy	15

†Students who expect to proceed to graduate work in mathematics should acquire a reading knowledge of both German and French.

Minimum requirements for the degree of Bachelor of Arts in Mathematics. The same as the above, except that a minimum of 15 credits in science (physics, chemistry, astronomy, geology, zoology, botany) is allowed; and the preponderance of the student's credits, including mathematics, should be in liberal arts courses.

The foregoing requirements can be met in a great variety of ways, depending upon the student's high school preparation and his individual needs.

MUSIC

Frances Dickey, Acting Director, Music Building

(See School of Music bulletin for detailed information)

Degree: Bachelor of Arts

All students who intend to register as music majors will be given a placement examination in music fundamentals, voice and piano, at the beginning of the year. The equivalent of Music 9A of the piano course (see School of Music bulletin, p. 11) is required for entrance. Students may substitute a corresponding proficiency on other approved instruments, in which case they shall complete Music 9A before graduation. Students whose training and proficiency in music, gained before entering the University, may warrant advanced standing, must make application during the first quarter of residence. Entering freshmen will ordinarily not be given advanced credits in music, but will substitute

other approved courses for those usually required. In any case not more than 18 credits in vocal or instrumental music will be allowed students with advanced standing.

Requirements for the First Two Years

All students majoring in music will be required to complete the following general course outlined for the first two years, in addition to the University requirement of Physical Education 4, 6, 8 or 10 and five quarters of physical education activities for women or Physical Education 15 and five quarters of physical education activities plus six quarters of military science or naval science for men.

First Year	*Credits*
Music 15, 16. Fundamentals	5
Music 46, 51. Harmony	6
Music 40, 41, or 42. Elementary Orchestral Instruments	6
[1]Vocal or Instrumental Music	6
English Composition	10
[2]L.A. Elective	5
Ensemble	6

Second Year	*Credits*
Music 53, 101. Harmony	10
Music 109. Counterpoint	5
Music 72, 73, 74. Literature and History	8
Music 127. Choral Literature	2
Physics 50. Sound	5
L.A. Elective	9-14
Ensemble	3
[3]Music 52. Advanced Ear Training	3
[4]Education 1.	2

[1]Students majoring in vocal or instrumental music are required to have 36 credits, 30 in one branch, for graduation, except in the case of organ majors who may present 12 of the required number of credits in piano. The other three curricula require 18 credits.

[2]Majors in Music Education must elect the following specific courses during the first three years: Sociology—5, Political Science—5, Psychology—5, Economics—5, Philosophy —5. (It is suggested that all music majors follow the same schedule of electives.)

[3]Not required of students receiving a grade of "A" or "B" in Music 51.

[4]Required of Music Education majors before the junior year.

Optional Curricula for Majors

At the end of the second year, students may, with the approval of the head of the department, choose a major from the following four curricula:

I. A Major in Vocal or Instrumental Music.
II. A Major in Music Education.
III. A Major in Composition.
IV. A Music Major in General Studies Division.

I. A MAJOR IN VOCAL OR INSTRUMENTAL MUSIC

Students will be examined upon entrance and at the end of each year by a committee. Quarterly examinations will be given by the individual teachers. A student may not be passed to a more advanced course without having satisfactorily completed the work and passed an examination in the course in which he has been placed.

Students enrolled in these courses will be given opportunity, on demonstration of the required ability, to participate in the public recitals of the department.

Three of the required credits in instrumental music may be earned in advanced orchestral instrument classes (Music 140, 141, 142).

Third Year	*Credits*
Music 112. Forms	5
Music 117. Elementary Composition and Arranging	5
Music 104, 105, 106. Since 1850	6
Vocal or Instrumental Music	9
[1]Approved electives	10
Ensemble	6
Natural Science	5

Fourth Year	*Credits*
Music 151, 152, 153. Modern Music	6
Music 157. Composition	5
Music 199. Senior Recital	2
Phil. 129. Aesthetics	5
Vocal or Instrumental Music	9
[1]Approved electives	15
Ensemble	6
[2]Music 165, 166, 167. Piano Pedagogy	6
[3]Music 163. Advanced Counterpoint	5

[1]Suggested electives: Music 190, 191, 192, Philosophy, Literature, Modern Languages. Voice majors should elect Literature 66, ten credits of German and ten credits of either Italian or French.

[2]Piano majors are required to take Music 165, 166, 167, *Piano Pedagogy.*

[3]Organ majors take Music 163.

II. A MAJOR IN MUSIC EDUCATION

(A) *Piano.* Students who have offered piano for instrumental entrance requirement (music 9A) shall complete Music 50A of the piano course (see bulletin) before graduation. Students who have substituted corresponding proficiency on another instrument shall complete Music 9A before graduation.

(B) *Voice.* Two years of study are required or the ability to demonstrate attainment equal to Music 9C or 9CX.

(C) *Cadet Teaching.* Students shall demonstrate their proficiency in piano and voice before an examining committee during the junior year.

(D) To qualify for the normal diploma, students should, during the senior year, choose a teaching minor in an academic subject.

Third Year	*Credits*
Music 113. School Music	5
Music 128. Choral Literature	2
Music 112. Forms	5
Music 136. Technique of Conducting	2
Vocal or Instrumental Music	6
Ensemble	6
[1]Natural Science	5
Educ. 60. Secondary Education	3
L.A. Elective	10

Fourth Year	*Credits*
Music 104, 105 106, *or* 151, 152, 153. Modern Music	4
Music 116, 154. School Music	6
Music 180. Orchestral Conducting	3
Vocal or Instruumental Music	6
Ensemble	3
Educ. 9. Educational Psychology	3
Educ. 70. Introduction to High School Procedure	5
Educ. 90. Measurements	2
L.A. Elective	9-10
[2]Music Elective	5-6

[1]See page 7, group 3, for specific sciences.
[2]Music electives to be chosen from the following courses: Music 117, 190, 191, 192, 195.

The bachelor's degree will be awarded upon the completion of the requirements of the fourth year, or 180 credits plus the required physical education and military or naval science. The five-year normal diploma will be awarded upon the successful completion of the requirements as outlined below:

Fifth Year

	Credits
Music 155. Supervision	3
Vocal or Instrumental Music	6
[1]Music Elective	5-6
Educ. 120. Educ. Sociology	3
Educ. 71, 72. Cadet Teaching	8
L.A. Elective	19-20

[1]Music electives to be chosen from the following courses: Music 117, 190, 191, 192, 195.

III. A MAJOR IN COMPOSITION

Third Year	*Credits*
Music 112. Forms	5
Music 117. Elementary Composition and Arranging	5
Music 136. Technique of Conducting	2
Music 143. Orchestration	5
Music 157. Composition	5
Music 104, 105, 106. Music since 1850	4
Vocal or Instrumental Music	6
L.A. Electives	2
Ensemble	6
Natural Science	5

Fourth Year	*Credits*
Music 151, 152, 153. Modern Music	4
Music 163. Advanced Counterpoint	5
Music 180. Orchestral Conducting	3
Music 197. Advanced Composition	6
Vocal or Instrumental Music	6
Music 190, 191, 192. Advanced Music Literature	9
Philosophy 129. Aesthetics	5
Electives	5
Ensemble	3

*IV. GENERAL STUDIES DIVISION (B.A. in Music)

Minimum requirements:	*Credits*
Music 15 16. Fundamentals	7
Music 46, 51, 53. Harmony	11
Vocal or Instrumental Music	12
Music 127, 128, 129. Choral Literature	6
Music Literature and History	18
Chosen from the following: Music 72, 73, 74, 104, 105, 106 151, 152, 153, 190, 191, 192.	
Ensemble	8

Minimum requirements:	*Credits*
English Composition	10
Sociology, Political Science, Economics	15
Psychology	5
Philosophy	5
[1]Natural Science	10
Humanities	10
Upper Division L.A. Electives	45

*Major students in this course will be given an examination in vocal or instrumental music at the end of the junior year.

[1]See page 7, group 3, for specific sciences.

NURSING EDUCATION

Elizabeth Soule, Director, 309 Home Economics Hall

(See School of Nursing Education bulletin for detailed information)

CURRICULA

Students entering the School of Nursing Education may take up curricula in one of two main groups: I. Basic courses leading to the degree of bachelor of science in nursing; II. Post graduate nursing courses for degree or for certificates in public health nursing or nursing supervision. These curricula are set forth in detail in the succeeding pages.

Students entering the School of Nursing Education may take up curricula in one of two main groups:

I. Basic courses leading to the degree of Bachelor of Science in Nursing.

II. Courses for Graduate Nurses:

a. Leading to the degree of Bachelor of Science in Nursing
b. Leading to the certificate in Public Health Nursing
c. Leading to the certificate in Nursing Supervision
d. Leading to the degree of Master of Science or Master of Arts.

These curricula are set forth in detail in the succeeding pages.

GROUP I.—BASIC COURSES

ADVISORY COMMITTEE FOR HOSPITAL DIVISIONS

Dean Edward Lauer
John Locke Worcester, M.D.
Elizabeth Sterling Soule

Harborview Division
Evelyn H. Hall
Harriet Smith
K. H. Van Norman, M.D.
Mrs. Thomas D. Stimson
*Henrietta M. Adams
*Board of Trustees Representative
*Medical Executive Committee Representative

Providence Division
Harry Shaw, M.D.
*Margaret Felton
Mrs. Ralph Dahlstrom
Dean of Seattle College
Four additional members of hospital staff

*Ex-officio members.

CURRICULUM A

Curriculum A is arranged on a sixteen-quarter basis, six quarters of which are taken on the campus and the remaining ten in nursing instruction and practice under university direction in a hospital division of the University of Washington School of Nursing Education approved for academic credit in each course.

Quarters in Campus Division

	Credits		*Credits*		*Credits*
Physics 89. Home	4	Physics 90. Home	3	Physics 91. Home	3
Comp. 4. Composition	3	Comp. 5. Composition	3	Chem. 2 or 22. General	5
N.Ed. 1. History	3	Chem. 1 or 21. General	5	Home Econ. 9. Nutrition	6
Psychology 1. General	5	Elective	5	Elective	2
Physical Education	+	Physical Education	+	Physical Education	+
Chem. 137. Organic	5	Physiol. 54. Human	5	Anat. 101. General Human	3
Bact. 101. General	5	Anat. 100. General Human	3	Home Econ. 105. Nutrition	5
Physiol. 53. Human	5	Bact. 102. Sanitary Bacteriology	5	Soc. 1. Survey of	5
Physical Education	+	*or*		Elective	2
		Bact. 103. Public Hygiene	5		
		Elective	3		
		Physical Education	+		

Quarters in Hospital Division

Credits	*Credits*	*Credits*
N.Ed. 50. Principles of Elementary Nursing.. 5	N.Ed. 60. Principles of Medical Nursing..... 3	N.Ed. 61. Principles of Nursing Medical Specialties 3
N.Ed. 51. Case Study... 1	N.Ed. 70. Principles of Surgical Nursing..... 3	N.Ed. 71. Principles of Nursing Surgical Specialties 3
N.Ed. 52. Introduction to Hospital Practice..... 6	N.Ed. 62. Medical Nursing Practice..... 6	N.Ed. 72. Surgical Nursing Practice..... 6
Anat. 105. Pathology... 3	Phar. 61. Therapeutics.. 3	
Phar. 51. Elementary... 2		
N.Ed. 76. Principles of Otolaryngology and Ophthalmology 2	N.Ed. 66. Principles of Preventive Medicine.. 2	N.Ed. 80. Principles of Pediatric Nursing.... 5
N.Ed. 64. Principles of Special Therapy..... 2	N.Ed. 75. Out-patient Nursing Practice..... 6	N.Ed. 73. Operating Room Practice..... 6
N.Ed. 65. Special Therapy Practice..... 6	Elective 2	Elective 2
N.Ed. 86. Principles of Obstetrical Nursing... 5	N.Ed. 90. Principles of Psychiatric Nursing... 5	N.Ed. 101. Introduction to Public Health Nursing 2
N.Ed. 82. Pediatric Nursing Practice..... 6	N.Ed. 88. Obstetrical Nursing Practice..... 6	N.Ed. 92. Psychiatric Nursing Practice..... 6
		Elective 2
N.Ed. 100. Professional Problems 2		
N.Ed. 68. Communicable Disease Nursing Practice 6		
Elective 2		

Twenty credits must be taken in the fields of liberal arts or social sciences.

CURRICULUM B

A selected course not meeting the complete curriculum requirements for the degree of bachelor of science in nursing is offered for students of hospital schools wishing the cooperation of the University in a one-year preliminary nursing course. On completion of the preliminary course and the hospital course, granting 45 lump credits, the student receives junior standing in the University toward degree curriculum A in group II.

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Comp. 4. Composition...	3	Comp. 5. Composition...	3	Chem. 2 or 22. General.	5
N.Ed. 1. History of Nursing.....	3	Chem. 1 or 21. General.	5	Home Econ. 9. Nutrition	6
Psychology 1. General..	5	Bact. 101. General Medical	5	Soc. 1. Survey of.....	5
Elective	5	Elective	2	Physical Education	+
Physical Education.....	+	Physical Education.....	+		

Summer Quarter	*Credits*
Physiol. 53. Human.....	5
Physiol. 54. Human....	5
Anat. 100 General Human	3
Anat. 101 General Human	3

Group II.—Curricula for Graduate Nurses

CURRICULUM A

The University offers this course to enable the graduate nurse to broaden her scientific and cultural background and prepare for advanced professional work. It allows the student a choice of her electives in the fields of public health nursing, nursing administration, or nursing education, and grants the degree of bachelor of science in nursing.

First Year

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Comp. 1. Composition...	5	Chem. 1 or 21. General.	5	Chem. 2 or 22. General.	5
Psych. 1. Introduction..	5	Comp. 2. Composition...	5	E.B. 1. Survey of Economics	5
Elective	5	Elective	5	Elective	5

Second Year

Physiol. 53. Human....	5	Physiol. 54. Human....	5	H.E. 105. Nutrition....	5
Elective	10	N.Ed. 150	5	Elective	10
		Elective	5		

Third Year

Bact. 101. General.....	5	Bact. 102. Sanitary.....	5	Bact. 103. Public Hygiene	5
N.Ed. 102 Public Health	5	N.Ed. 103. Administration Public Health....	3	Elective	10
or		N.Ed. 104. Epidemiology	2		
N.Ed. 151. Administration of School Nursing	5	*or*			
Elective	5	N.Ed. 152. Supervision.	5		
		Elective	5		

CURRICULUM B

Leading to Certificate in Public Health Nursing

The broadening of the field of nursing has created a demand on the part of nurses for definite study along lines which experience has shown to be closely interwoven with the problems of the family and the community. A nurse must combine with the technical knowledge she already possesses an understanding of the fundamental principles of economics and the social sciences.

The demand for properly trained and qualified public health nurses is constantly increasing as new fields open through recognition by the public of the economic value of the work. Beginning each quarter of the year the University offers a course in public health nursing which is open to graduate nurses who are deemed qualified for such work, and who wish to broaden their training to take up positions in this specialized line. This course is endorsed by the National Organization for Public Health Nursing.

This course includes five quarters of academic work at the University and one quarter of field work. Three quarters of this time must be spent in residence at the University of Washington.

	Credits		*Credits*
N.Ed. 102. Public Health	5	*N.Ed. 112. Advanced Field Work	12
N.Ed. 103. Administration Public Health	3	*N.Ed. 165. Contemporary Literature	2
N.Ed. 104. Epidemiology	2	*N.Ed. 171. Psychiatric Information	2
N.Ed. 150. Principles of Teaching Nursing and Health	5	*N.Ed. 172. Psychiatric Information	2
Soc. 1. Introduction	5	*H.E. 105. Nutrition	5
Soc. 128. Field of Social Work	3	*Comp. 1. Composition	5
Soc.Work 175. Social Case Work	5	*Comp. 2. Composition	5
Psych. 1. Introduction	5	*Speech 40. Essentials of Speaking	5
Bact. 103. Public Hygiene	5	*N.Ed. 111. School Nursing	3
N.Ed. 110. Field Work	8-16	*Psych. 131. Child Psychology	5
		*Chem. 1. General Inorganic	5
		*Chem. 2. General Inorganic	5
		Total credits required	90

*Electives.

CURRICULUM C

Leading to a Certificate in Nursing Supervision

Executives and students of the field of hospital and nursing administration have frequently expressed the need for supervisors, administrators and teachers who have had advanced education and experience, qualifying them for positions of responsibility in fields of obstetric, pediatric, medical, surgical, operating room, psychiatric, and out-patient nursing.

The University offers the course leading to a certificate in nursing supervision for graduate nurses who wish preparation as head nurses or supervisors.

This program combines five to seven credits of academic work each quarter with a year's professional practice in one major and two minor nursing services elected from the specialties listed above. Five credits in each of the social sciences, economics, psychology, sociology, and nutrition, is required before beginning the advanced professional program in the hospital division.

Prerequisite Courses

	Credits		*Credits*
E.B. 1. Survey of Economics and Business	5	Psych. 1. General	5
Soc. 1. Survey of Sociology	5	Home Econ. 105. Nutrition	5

Advanced Supervisory Program

Academic Courses	*Credits*	*Professional Practice*
Phar. 101. E. Advanced Pharmacy and Therapeutics	2	Review, supervision, and advanced administration in classes and practice of major and 1st and 2d minor nursing specialties selected.
N.Ed. 150. Principles of Teaching	5	
N.Ed. 152. Supervision of Hospital Departments	5	1st Minor Service.....1 quarter
N.Ed. 153. Administration of Nursing Service	5	2nd Minor Service.....1 quarter
or		Major Service.....1 quarter
N.Ed. 151. Administration Schools of Nursing	5	Advanced Administration and Teaching .....1 quarter
N.Ed. 154. Cadet Teaching and Ward Administration	10	Total practice required.....4 quarters
Total credits required	47	

OCEANOGRAPHIC LABORATORIES

Thomas G. Thompson, Executive Officer, 201 Oceanographic Laboratories

(See Oceanographic Laboratories bulletin for detailed information)

A thorough training in the fundamental sciences is essential for an extensive study in oceanography. Such a study does not ordinarily begin until graduate standing has been attained, although exceptional upper division students will be considered. Preparation for graduate study in oceanography may be approached by majoring in one of the physical or biological sciences. For the convenience of students contemplating such work, curricula for undergraduates are suggested by the staff of the laboratories. By adherence to the curriculum a student may graduate with the degree of bachelor of science. The student adviser will be a member of the staff of the laboratories representing the major department.

ORIENTAL STUDIES

Robert T. Pollard, Executive Officer, 207 Denny Hall

DEGREE: Bachelor of Arts

One general and four specialized curricula are offered to students desiring to major in Oriental Studies, of which the student is required, after consultation, to select one. This choice must ordinarily be made not later than the sophomore year.

General Major in Oriental Studies

	Credits
10. Survey of Asia	5
114, 115, 116. History of Religion	9
Electives in literature: 50, 51, 170, 171, minimum of..Upper Division	10
History electives: 90, 91, 180, 181, minimum of	5
Reading course electives: 190, 191, 192, minimum of	3
Additional approved electives	15
	47

Major in Japanese Language and Literature

	Credits
10. Survey of Asia	5
1-2, 3. Japanese Language	15
107, 108, 109. Japanese Language, second year	15
170. Chinese Literature	5
171. Japanese Literature	5
Electives, 41, 91, 115, 181, minimum of	3
	48

In addition to the above, the following courses are strongly recommended: O.S. 44-45, 46, *Chinese Language,* and 110, 111, *Japanese Language,* third year.

Major in Chinese Studies

	Credits
10. Survey of Asia	5
44-45, 46. Chinese Language	15
147, 148, 149. Chinese Language, second year	15
90 or 180. Chinese History	5
115. History of Religion	3
170. Chinese Literature	5
Approved electives: 40, 192, minimum of	3
	51

Major in Slavic Studies

	Credits
7-8, 9. Russian Language	15
140, 141, 142. Russian Language, second year	9
130. Russian Literature	5
136. History of Russia	3
116. History of Religion, *or* 10. Survey of Asia	3 or 5
Pol. Sci. 129. International Relations of the Far East	5
Approved electives: 40(190, 192, minimum of	5
	45 or 47

Major in Oriental Languages

	Credits
10. Survey of Asia	5
Language elective (Hebrew, Sanskrit, Arabic, Aramaic, Chinese, Japanese)	30
114, 115, 116. History of Religion	9
Approved electives: 50, 51, 52, 170, 171	10
	54

PHILOSOPHY

William Savery, Executive Officer, 264 Philosophy Hall

DEGREE: Bachelor of Arts

Major Requirements

	Credits
2. Introduction to Social Ethics *or*	
3. Introduction to Ethics	5
5. Introduction to Logic	5
101-102-103. History of Philosophy	9
Electives	17
Minimum total hours	36

Fifty per cent of the credits in the major must be in upper division courses. Psychology 1 is required, and major students are urged to elect courses in psychology.

PHYSICAL EDUCATION FOR MEN AND WOMEN

Mary Gross Hutchinson, Executive Officer,
105 Women's Physical Education Building

Henry M. Foster, Executive Officer, 210 Men's Pavilion

There are three groups of students in the School of Physical Education:

Group A. Major in physical education leading to a bachelor of arts degree.

Group B. Professional training in physical education for recreational leadership. Bachelor of arts degree.

Group C. Professional training leading to the degree and the University normal diploma (for secondary school teaching).

Following are the requirements for groups A, B, and C; those interested in the University normal diploma should consult the College of Education bulletin also.

I. Composition 1-2

II. Required foundation and related courses:

	Credits
Zool. 1. Animal Biology	5
Zool. 2. General Zoology	5
Zool. 16. Evolution	2
Zool. 17. Eugenics	2
Chem. 1-2. General Chemistry (Unless taken in high school)	10
Anat. 100. Anatomy Lectures	3
Physiol. 50. Physiology	6
*H.E. 104. Nutrition for Non-Majors	2
Soc. 1. Survey of Sociology	5
Psych. 1. General Psychology	5
Speech 40. Essentials of Speaking	5
*Bact. 103. Public Hygiene	5
†Phys. Educ. 11-12-13. Physical Education Activities for Freshmen Majors	6
*Phys. Educ. 6, 7, 8; 9, 10, 11. Physical Education Activities for Majors	6
	†48+6
	*55+6

III. Required professional courses:

	Credits
*Phys. Educ. 107. Personal and General Hygiene	3
*Phys. Educ. 110. First Aid and Safety	3
†Phys. Educ. 111. Rhythmic Activities for Small Children	2
†Phys. Educ. 112. Elementary School Athletic Program	3
Phys. Educ. 113. Playground and Community Recreation	3
Phys. Educ. 115. Physiology of Muscular Exercise	5
†Phys. Educ. 118. Analysis of Rhythm	3
*Phys. Educ. 141, 142, 143. Physical Education Methods	9
Phys. Educ. 145. Principles of Health and Physical Education	5
*Phys. Educ. 150. Physical Education Administration	5
*Phys. Educ. 153. Methods and Materials in Health Teaching	2
†Phys. Educ. 162, 163, 164. Methods in Physical Education	15
Phys. Educ. 165. The Administration of Health Education	3
†Phys. Educ. 181. Admin. and Organization of Camp Programs	3
	†42
	*38

IV. Completion of Group 1 and military or naval science requirements of University College.

†Required of women only.
*Required of men only.

PHYSICS

Henry L. Brakel, Executive Officer, 206 Physics Hall

DEGREE: Bachelor of Science in Physics

First Year

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Comp. 1. Composition	5	Comp. 2. Composition	5	Speech 40. Essentials of Speaking	5
Math. 4. Plane Trigonometry	5	Math. 5. College Algebra	5	Math. 6. Analytic Geometry	5
Physics 1. Mechanics and Sound	5	Physics. 2. Heat and Light	5	Physics 3. Electricity and Magnetism	5
Military or Naval Science & Physical Education.	+	Military or Naval Science & Physical Education.	+	Military or Naval Science & Physical Education.	+

Second Year

Chem. 1. or 21. General.	5	Chem. 2 or 22. General.	5	Chem. 23. General	5
Math. 107. Calculus	5	Math. 108. Calculus	5	Math. 109. Calculus	5
Physics 101. Introduction to Modern Physics	3	Physics 102. Introduction to Modern Physics	3	Physics 150. Heat and Introduction to Thermodynamics and Kinetic Theory	3
Physics 105. Electricity and Magnetism	3	Physics 106. Electricity and Magnetism	3	Elective	2
Military or Naval Science & Physical Education.	+	Military or Naval Science & Physical Education.	+	Military or Naval Science & Physical Education.	+

Third Year

Math. 114. Differential Equation	3	Math. 115. Differential Equation	4	Physics 160. Optics	6
Chem. 111. Quantitative Analysis	5	Chem. 131. Organic Chemistry	5	Chem. 132. Organic Chemistry	5
Physics 140. Sound	3	*Advisory Elective	5	*Advisory Elective	4
*Advisory Elective	5				

Fourth Year

Physics 191. Theoretical Mech.	4	Phys. 192. Theoretical Mech.	4	Physics 115. Photography	4
Physics 195. Experimental Atomic Physics	3	Phys. 196. Experimental Atomic	3	Chem. 183. Physical and Theoretical Chemistry.	5
Chem. 181. Physical and Theoretical Chem.	5	Phys. 180. History of Physics	2	Physics 154. Low and High Frequency Measurements	4
Elective	2	Chem. 182. Physical and Theoretical Chemistry.	5	Mech. Eng. 55. Manufacturing Methods	1

*Foreign Language French or German.
The total number of credits must include Physical Education 15 for men, and Physical Education 4, 6, 8, or 10 for women.

POLITICAL SCIENCE

Charles E. Martin, Executive Officer, 11A Condon Hall

DEGREE: Bachelor of Arts

The courses in political science are offered to meet the needs of the following groups: (1) students seeking sufficient political training to aid them in understanding their civic duties; (2) those desiring courses in political science as a part of their liberal education; (3) students who desire to prepare themselves for positions in the public service, national, state, and local, and the foreign service; (4) students seeking courses in political science which are preparatory and supplementary to their work in the following professional schools—law, education, business administration, and journalism; (5) those who desire that systematic and intensive training which will prepare them as teachers or investigators in political science.

Forty-five credits for a major which must include 30 upper division credits, 20 credits in one group and 10 in each of the other two.

I. Political Theory and Jurisprudence.
II. International Relations.
III. Politics and Administration.

PSYCHOLOGY

Stevenson Smith, Executive Officer, 338 Philosophy Hall

DEGREE: Bachelor of Arts or Bachelor of Science

Students who have shown an aptitude in psychology, and who consider taking extensive work in this subject, are invited to confer with members of the staff in order to plan their work to advantage.

For a major, 36 credits of psychology approved by the department.

Majors should if possible elect courses in mathematics, physics, physiology, and philosophy.

The following courses are particularly desirable for majors: Psych. 1, 2, 102, 106, 108, 109, 112, 116, 124, 140 and 141.

Advised elective courses in other departments: Physics 10 or 1-2-3 or 4-5-6. Also advanced courses. Chemistry 4.

Majors are advised to secure as thorough an education as possible in natural and biological science and in mathematics.

ROMANIC LANGUAGES AND LITERATURE

(French, Spanish and Italian)

Pierre J. Frein, Executive Officer, 215 Denny Hall

DEGREE: Bachelor of Arts

FRENCH

For a major, a minimum of 36 credits which must include the following courses:

	Credits
41. Phonetics	3
101, 102. Composition and Conversation	6
103. Composition and Conversation *or*	
107. French Themes	3
158, 159. Advanced Syntax	4
*Literature	9 or 10

*French literature courses numbered above 117. At least 6 of the 9 or 10 credits shall be in literature courses conducted in French.

ITALIAN

A minimum of 36 credits approved by the head of the department.

SPANISH

For a major, a minimum of 36 credits which must include the following courses:

	Credits
101, 102, 103. Advanced Composition	9
159. Advanced Syntax	3
*Literature	9 or 10

*Spanish literature courses numbered above 117. At least 6 or 7 of the 9 or 10 credits shall be in literature courses other than the survey courses, which are Spanish 118, 119, 120; 34, 35, 36, or 134, 135, 136.

SCANDINAVIAN LANGUAGES AND LITERATURE

(Swedish, Norwegian, and Danish)

Edwin J. Vickner, Executive Officer, 210 Denny Hall

DEGREE: Bachelor of Arts

SWEDISH

	Credits
1, 2, 3. Elementary	9
4, 5, 6. Swedish Reading	6
23, 24, 25. Swedish Literature	6
103, 104, 105. Recent Swedish Writers	9
106, 107, 108. Recent Norwegian-Danish Writers	6
	36

NORWEGIAN AND DANISH

	Credits
10, 11, 12. Elementary	9
13, 14, 15. Norwegian-Danish Reading	6
20, 21, 22. Norwegian-Danish Literature	6
103, 104, 105. Recent Swedish Writers	6
106, 107, 108. Recent Norwegian-Danish Writers	9
	36

GRADUATE SCHOOL OF SOCIAL WORK

Arlien Johnson, Director, 300-F Commerce Hall

(See Graduate School of Social Work bulletin for detailed information.)

The Graduate School of Social Work accepts a limited number of graduate students each year to complete the social service curriculum. Applicants are selected who hold a baccalaureate degree from an accredited college, and who show, by academic record and by character and maturity, aptitude for social work. Application should be made directly to the Graduate School of Social Work and must be filed before July 1.

ADMISSION

Professional Students. To enter the professional courses, a student must have received a baccalaureate degree from an accredited college. The applicant's undergraduate study should have included at least thirty-six credits in the social and biological sciences, twenty-five credits of which should be in a particular sequence in a social science. While students without such pre-professional preparation may be admitted, and permitted to make up the deficiency gradually, students are preferred who have a basic foundation in the social and biological sciences.

Part-Time Students. Social workers of experience may be admitted to professional courses by special arrangement after conference with the Director. The third quarter of case work is open only to students having twelve credits in professional courses other than case work.

Pre-Professional Students. A program of background courses has been arranged in the sociology department for those planning to enter the Graduate School of Social Work in their fifth year. Courses numbered under 200 are open to undergraduate students. A leaflet advising a pre-professional sequence of courses in the social sciences and related fields may be had upon request to the sociology department.

Curriculum

The curriculum is planned to lead to the degree of master of arts, and no diploma or certificate is granted along the way. For the student who enters with a minimum of thirty-six credits in social and biological sciences, a program is offered for the master's degree covering approximately six quarters of work. The average student program carries a maximum of fifteen credits each quarter.

A broad first year curriculum is required of all students. Courses considered fundamental for all first-year students include the following:

Social Case Work I and II
Case Work with Psychiatric Interpretation
Field Work I, II, and III
Psychiatric Information for Social Workers I and II
Medical Information for Social Workers
Community Organization *and/or* The Rural Community
Public Welfare Administration
Problems of Child Welfare
Social Statistics

During the second year of graduate study increasing attention is given to field work experience; and additional courses are required in the administration of social agencies, social legislation, the history of social work, and social research.

In addition to courses under the direction of the faculty of the Graduate School of Social Work, the faculties of other departments and schools of the University of Washington are called upon for courses in law, political science, sociology, home economics, labor problems, public health, and psychology.

While qualified students are urged to complete the work for a master of arts degree, those unable to remain longer than one year who have satisfactory pre-professional preparation, can complete in that time the basic curriculum prescribed by the American Association of Schools of Social Work, which is outlined above. They are then eligible to apply for admission to the American Association of Social Workers. Students entering upon professional study directly after receiving the baccalaureate degree may find it desirable to complete the basic curriculum and then secure a position, returning at a later date to conclude work for the master's degree.

SOCIOLOGY

Jesse F. Steiner, Executive Officer, 319 Physics Hall

Degree: Bachelor of Arts

Sociology treats of the life of human groups. Its subject matter is closely related to that presented by the other social studies. Students should read the department leaflet and consult staff advisers before selecting courses.

		Credits
1.	Survey of Sociology *or*	
150.	General Sociology	5
55.	Human Ecology, *or* 155, Human Ecology	5
66.	Group Behavior, *or*	5
190.	Social Attitudes	3
131.	Social Statistics	5
Electives from courses offered in the department, chosen after consultation regarding the special field of interest		16 *or* 18
Minimum total		36

ZOOLOGY

Trevor Kincaid, Executive Officer, 202 Johnson Hall

(See Biological Sciences page 14.)

PRE-EDUCATION

W. L. Uhl, Executive Officer, 113 Education Hall

(See College of Education bulletin for detailed information.)

Pre-education Students. During the freshman year, students who expect to teach register as pre-education freshmen in the University College and pursue the regular courses of this college. They must confer in this year with the dean of the College of Education. This conference is for two purposes: (1) to obtain admission to the College of Education; and (2) to select suitable combinations of teaching subjects and orientation courses for the proposed preparation for teaching.

PRE-LAW

David Thomson, Adviser, 107 Parrington Hall

(See School of Law bulletin for detailed information.)

General. The minimum requirements for admission to the School of Law are three years of college work (135 academic credits plus required work in military or naval science and physical education) and a scholarship average of 2.25 grade points. While the Law School does not prescribe specific courses, it strongly recommends that all pre-law students complete the basic courses in history (English and American), economics, political science, and English composition. Some work in sociology is desirable and a course in logic or mathematics is strongly recommended. In choosing electives the student should include some work in the biological and physical sciences.

Combined Six-Year Arts-Law Course. It is possible to obtain a degree of bachelor of arts and bachelor of laws in six years. To have the benefit of this combined course, students must, in the first three years, earn 139 credits in the University College together with the required credits in military or naval science and physical education. To take the 139 credits in three years the student should carry an average of 16 credits each for four quarters during the junior and sophomore years, exclusive of military or naval science and physical education. As one can enter the Law School to advantage only at the beginning of the autumn quarter, the entire 139 credits should be completed within the customary three years, with work during an intervening summer quarter if necessary. At the beginning of the fourth year, if a student has earned 139 credits with an average of 2.25 grade points, and the required credits in military or naval science and physical education, he may enter the School of Law and there earn 41 credits which will be counted toward his bachelor of arts degree. He will be granted the bachelor of arts degree at the end of the fourth year, or as soon as he completes the required work above specified and 41 credits in the School of Law with an average of 2.25 grade points. The degree of bachelor of laws will be conferred upon completion of his work in the Law School.

This combined arts-law course, in lieu of a major, requires 70 upper division credits in place of the 60 credits required of students offering a major. As the 41 credits of law, counted toward the bachelor of arts degree, are in upper

division courses, it follows that at least 29 of the 139 credits referred to above must also be in upper division courses. These 29 credits must be so grouped that they can be approved by the dean of the University College as constituting, with the law courses, a satisfactory substitute for the major usually required for the bachelor of arts degree.

In exceptional cases where the student has at least 135 credits, the dean of the Law School may, upon written petition, permit registration in the Law School and allow the student to satisfy the remaining four credits necessary for the combined degrees at some subsequent time.

Transfer Law Students. Students from other institutions entering this University with advanced standing may take advantage of this combined six-year course, provided they are registered in the University College for at least one full year of work, and earn at least 45 credits in the University before entering the School of Law. This privilege will not be extended to normal school graduates attempting to graduate in two years, nor to undergraduates of other colleges who enter this University with the rank of senior.

Required Curricula in Group Majors

A Six-Year Course in Science and Law. This is a combination course whereby a student may obtain the degrees of bachelor of science and bachelor of laws in six years. At the end of his third year, after he has earned 139 academic credits with a grade point average of at least 2.25 and completed the required six quarters in military or naval science and physical education, and all required work with a major in some department, he may register in the School of Law for the first year's work in law. He will be granted the bachelor of science degree at the end of the fourth year, or as soon as he completes the required work above specified and 41 credits in the School of Law, making a total of 180 credits for graduation. The fifth and sixth years of the combined courses are devoted to completing the remainder of the required work for graduation from the School of Law.

PRE-LIBRARY

Ruth Worden, Director, 111 Library

(See School of Librarianship bulletin for detailed information.)

Admission. Admission to the general course in librarianship is granted as follows:

To graduate students holding the baccalaureate degree from any college or university of good standing, with an average grade of "B" in their undergraduate work and at least 20 college credits of one modern foreign language. Students desiring to enter college or university library work or work in a large public library are required to have a reading knowledge of both French and German.

Initial admission to classes in the School of Librarianship is permitted only at the beginning of the college year in October.

Students planning to enter the School of Librarianship should consult the director of the school at least once a year.

The following course in librarianship is open to students outside of the school, but does not carry credit toward the degree in librarianship: 180, *Story Telling.*

The following courses may be taken by teaching majors who wish to qualify to meet the requirements of the State Department of Education for

teacher-librarians: 170, *Introduction to Children's Work;* 175, *Cataloging and Classification;* 177, *Bibliography and Reference;* 182, *School Library Administration;* and 195, *Book Selection for School Libraries.*

Scholarship. In preparing for the School of Librarianship a student must maintain an average of "B" as a strong foundation is essential for successful library service. Students not making an average of "B" in librarianship courses may, at the discretion of the faculty of the school, be dropped.

Graduation. The degree of bachelor of arts in librarianship is granted upon satisfactory completion of 45 credits in the school.

PRE-MEDICINE

or

PRE-DENTISTRY

John L. Worcester, Executive Officer, Anatomy Building

TWO AND FOUR-YEAR CURRICULA PREPARATORY TO MEDICINE

ONE OR TWO-YEAR CURRICULUM PREPARATORY TO DENTISTRY

The University offers two curricula preparatory to the study of medicine. One of these is for two years, and will meet the requirements of medical schools which require only two years of college work for admission to their professional study. The second is for four years, and prepares students for those medical schools that require for admission the completion of a full four-year college course. The curricula will not reduce the amount of work to be done by the student in the medical school but they are designed to increase its efficiency. Students should consult adviser.

These courses are also well adapted for pre-dental students, as the best dental schools require the same foundation work as the medical schools.

Below is the outline of the four-year curriculum. The first and second years constitute the two-year curriculum. Courses in other years optional:

First Year

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Chem. 1 or 21. General.	5	Chem. 2 or 22. General.	5	Chem. 23. Qualitative Analysis	5
Zool. 3. Pre-medical	5	Zool. 4. Pre-medical	5	Physiol. 7. Elementary	5
Comp. 1. Composition	5	Comp. 2. Composition	5	Psych. 1. General	5
Military or Naval Science and Physical Education +		Military or Naval Science and Physical Education +		Military or Naval Science and Physical Education +	

Second Year

Physics 1. General	5	Scientific French or German	5	Physics 3. General	5
Lit. 73. Introduction to Modern Literature	5	Physics 2. General	5	Chem. 132. Organic	5
Electives	5	Chem. 131. Organic	5	E.B. 1. Survey of Economics	5
Military or Naval Science and Physical Education +		Military or Naval Science and Physical Education +		or Pol. Sci. 1. Survey of Political Science	5
				Military or Naval Science and Physical Education +	

Third Year

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Anat. 100. Lectures	3	Anat. 102. General Human	6	Anat. 103. General Human	6
Anat. 101. General Human	3	Anat. 106. Histology and Embryology	6	Anat. 107. Neurology	6
Anat. 105. Histology and Embryology	6	‡Bact. 106. Clinical Diagnosis	5	‡Bact. 104. Serology	5
‡Bact. 101. General	5				

Fourth Year

Physiol. 151. Advanced	5	Physiol. 152. Advanced	5	Physiol. 153. Advanced	5
‡Chem. 161. Physiological	5	‡Chem. 162. Physiological	5	Bact. 112. Pathology	5
Bact. 105. Infectious Diseases	5	Electives	6	Anat. 104. Topographic	4
				Electives	2

‡Approved electives may be substituted.

The total number of credits must include Physical Education 15 for men, or Physical Education 4, 6, 8, or 10 for women.

W379Zus
1936

BULLETIN

OF

WASHINGTON UNIVERSITY

SAINT LOUIS

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JAN 28 1936
UNIVERSITY OF ILLINOIS

SUPPLEMENTARY ANNOUNCEMENT

OF

UNIVERSITY COLLEGE

JANUARY 10, 1936

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SERIES II VOLUME XXXIV NUMBER II

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CALENDAR OF UNIVERSITY COLLEGE

Second Semester, 1935-36

Mid-Year Examinations:

1. For afternoon and evening students, Monday, January 27, to Friday, January 31, 1936, inclusive.
2. For full-time day students, Thursday, January 23, to Friday, January 31, 1936, inclusive.

Registration for the second semester:

1. *For afternoon and evening students,* Monday, January 20, to Saturday, February 1, 1936, inclusive.
2. *For full-time day students,* Monday and Tuesday, February 3 and 4, 1936.

Late registration fee:

A late registration fee of $2.00 is effective February 3, 1936, for all evening and afternoon students registered in the first semester.

Second semester begins:

1. For afternoon and evening students, Monday, February 3, 1936.
2. For full-time day students, Wednesday, February 5, 1936.

Last day for registration for credit and for completing payment of fees, afternoon and evening students, February 15, 1936.

Holiday, Washington's Birthday, Saturday, February 22, 1936.

Holiday, Good Friday, April 10, and Saturday, April 11, 1936.

Final Examinations:

1. For afternoon, evening, and Saturday-morning students, Monday, May 18, to Saturday, May 23, 1936, inclusive.
2. For full-time day students, Thursday, May 28, to Friday, June 5, 1936, inclusive.

Commencement, June 9, 1936.

Summer Session:

Registration, June 12 and 13, 1936.
Classes begin, June 15, 1936.

OFFICERS OF GOVERNMENT

George Reeves Throop, Ph.D., LL.D.....Bridge Chancellor

Walter Edward McCourt, A.M.....Assistant Chancellor

Frank Michael Debatin, A.M.....Dean of University College and Chairman of the Administrative Board

---

William Glasgow Bowling, A.M.....Assistant to the Dean

Annette V. Stevens.....Secretary

UNIVERSITY COLLEGE

University College was created to coordinate and administer certain educational functions involving two or more of the existing schools of the University. It continues the evening, afternoon, and Saturday morning classes originally under the direction of the Division of University Extension. With it is affiliated the Washington University Association. It publishes a quarterly known as the Adult Education Bulletin. It maintains a Speakers' Bureau. It sponsors local conferences, and assists and cooperates with local groups and organizations desiring to formulate educational programs.

I. For part-time adult students (usually employed during the day) University College offers the following educational opportunities:

1. Courses which may be taken by adults for their own personal profit and satisfaction.

2. The same curricula leading to the same degrees (B.S.E. or B.S.J.) as are offered to full-time students.

3. Courses which may be used by properly qualified students as partially fulfilling the requirements of the A.B., B.S., and A.M. degrees.

4. Courses on the college level preparing students for admission to the professional schools of Business and Public Administration, Law, Medicine, Dentistry, Nursing, Journalism, and Education.

5. Courses arranged in curricula leading to Certificates in Accounting, Advertising, Real Estate, Salesmanship, Secretarial Studies, Interior Decoration, Architectural Draftsmanship, Structural Design, Electrical Engineering, Heat Engineering, Machine Design, and Mechanical Engineering.

6. Courses on a high school level enabling students to make up deficiencies in preparatory training.

II. For full-time day students, University College offers curricula leading to the following degrees and recommends to the Corporation of Washington University those candidates who have satisfied all the requirements:

1. Bachelor of Science in Journalism
2. Bachelor of Science in Education:
   a) For Teachers in the Elementary Schools
   b) For Teachers in the Secondary Schools
   c) For Teachers of Commercial Subjects
   d) For Teachers and Supervisors of Art
   e) For Teachers of the Deaf
   f) For Teachers and Supervisors of Speech Correction

III. The Washington University Association in affiliation with University College offers each year a season of lectures from the middle of October to the middle of April.

IV. The Adult Education Bulletin, published quarterly by University College, contains news of that division of the University and of events in the general field of Adult Education.

V. University College maintains a Speakers' Bureau and publishes a bulletin explaining this work.

VI. University College stands ready to confer with the members of any groups who may desire to develop educational programs.

Address all communications regarding any of these services to the Dean of University College, Washington University, St. Louis.

INFORMATION FOR STUDENTS DESIRING TO ENTER IN THE SECOND SEMESTER

University College accepts new students at the beginning of the second semester. For those who are part-time students registering for afternoon and evening courses, the following pages contain the announcement of numerous courses beginning at this time, and of others which may be entered by properly qualified students.

If a student wishes to receive credit for his work toward either a certificate or a degree, he should send to the Dean of University College full credentials of his previous training and should consult with the Dean or his assistant regarding any matters of qualifications or procedure concerning which he is in doubt.

Students entering University College for full-time day programs must submit their records from the institutions previously attended and must register during the day hours of February 3 and 4.

In the following pages only the most essential information has been included since this is a supplementary bulletin. Full information about regulations, degrees, certificates, and many other matters concerning University College may be had by requesting a copy of the bulletin of June 20, 1935. Address the Dean of University College, Washington University, St. Louis; or telephone CAbany 2382, Station 12.

Admission Requirements

I. For students not working for credit:

1. For mature students whose chief interests lie outside the University and who wish to pursue courses for personal profit rather than for credit, the sole conditions for admission are: (a) that they be twenty years of age or high school graduates and (b) that they can satisfy the departments in which they wish to study that they are capable of carrying on the work with profit to themselves and without hindrance to the class.

2. Students between eighteen and twenty years of age who are not high school graduates may, with the consent of the Dean, be admitted to:

a. Preparatory courses.

b. Certain courses with the designation Credit XIIB. (See page 10.)

II. For Candidates for Certificates:

The requirements for admission to the various curricula leading to certificates are stated fully in the bulletin of June 20, 1935, and students interested in working for a certificate should secure a copy of this bulletin. Transcripts of high-school credits should also be sent to the Dean of University College. See pages 4 and 8-9 of this present catalogue for a list of subjects in which certificates are offered.

III. For All Candidates for Degrees, Whether Full-time Day Students, or Part-time Evening Students:

The admission requirements for all candidates for the degrees conferred by University College are described in full in the bulletin of June 20, 1935, and candidates for degrees should secure a copy of this bulletin. Transcripts of all academic work previously completed should be sent to the Dean of University College. See pages 4 and pages 7-8 of this present catalogue for other information regarding degrees.

Registration

All students must register in person. They will obtain their registration blank as well as full directions for registering in the office of University College, Room 126, Brookings Hall. Students should register as early as possible, especially if they require consultation with the Dean or with the head of a

department in order to determine either their eligibility or the proper sequence of their courses.

For all *part-time evening students* the dates for registration for the second semester are from Monday, January 20, to Saturday, February 1, 1936, inclusive. Part-time students wishing to register earlier than January 20 may do so.

For *full-time day students* the dates for registration for the second semester are Monday and Tuesday, February 3 and 4, 1936.

The office of University College is open daily from 9 a. m. to 5 p. m., Saturdays 9 a. m. to 12:30 p. m. Except on Saturdays, the office is open in the evening from 7:15 to 8:15 throughout the school year. During the registration period the office is open in the evening from 7 to 9:30.

Late Registration Fee

(See below)

Fees

No registration is regarded as complete until the student has paid his tuition and other fees. These fees include:

a. The University fee of $3.00 per semester.
b. Tuition fees, which will be found in the description of each course.
c. Laboratory deposits and fees.

Students are required to pay at the time of registration the University fee of $3.00, all laboratory deposits and fees, and not less than $5.00 of the course fees. This latter payment will be considered a partial payment on the course fees, provided the remainder is paid on or before February 15, 1936.

Additional fees for candidates for degrees are:

1. A matriculation fee of $10.00, payable in advance.
2. A diploma fee of $3.00, payable one month before graduation.
3. A moderate charge for proficiency tests or comprehensive examinations, where these are required.

The University reserves the right to change the fees herein stated, or to establish additional fees at any time without notice. Whenever such changes are made they become effective with the next instalment for payment due from the student.

Late Registration Fee

Part-time students in the first semester who desire to continue their courses in the second semester must renew their registration on or before Saturday, *February 1, 1936*, or pay a late registration fee of $2.00.

Full-time students registered in the first semester must register for the second semester on or before February 4, 1936, or pay a late registration fee of $3.00.

Students not registered in the first semester 1935-36 will not be charged a late fee.

Cancellation of Registration

The registration of any student in University College will be cancelled if the student fails to meet his financial obligations promptly, or if in the opinion of the University authorities his further presence is not conducive to the best interests of the University. In the latter type of cancellation a pro rata refund of tuition will be made.

Withdrawal and Refund

No student withdrawing from a course before making the final payment on his tuition will be released from the obligation of such payment except upon written request to the office of University College, and then only for personal illness or transfer from the city by the student's employer. The amount to be allowed will be computed from the date of receipt of the student's written

request, and ten percent of the fees will be charged for each week of the semester preceding the request. No allowance for absence will be made, except when due to illness certified by a physician. Failure to make satisfactory settlement of tuition charges bars a student from subsequent registration in any department in Washington University until all arrears have been paid.

To students who have paid in full, refunds may be allowed only for the reasons indicated in the previous paragraph, and such refunds will be computed in the same manner as allowances described above.

In no case is the University fee refundable.

Degrees Conferred by University College

1. Bachelor of Science in Journalism

2. Bachelor of Science in Education

University College confers the degree of Bachelor of Science in Journalism upon such students as have completed satisfactorily the curriculum leading to this degree. University College also confers the degree of Bachelor of Science in Education (a) for Teachers in the Elementary Schools, (b) for Teachers in the Secondary Schools, (c) for Teachers of Commercial Subjects, (d) for Teachers and Supervisors of Art, (e) for Teachers of the Deaf, and (f) for Teachers and Supervisors of Speech Correction. Complete information concerning these degrees is available in the bulletin of June 20, 1935, which may be had upon application to the Dean of University College.

For part-time evening students the work leading to these degrees may be done entirely under the direction of University College, though in certain cases it may be necessary to complete a portion of the work in the Summer Session or even, in rare instances, in the regular day classes in the College of Liberal Arts.

For full-time day students the pre-professional courses of the first two years must be completed in the College of Liberal Arts, whereas the professional work of the last two years is directly under the supervision of University College, in cooperation with the School of Business and Public Administration, the School of Fine Arts, the School of Architecture, and the Central Institute for the Deaf.

Opportunity for personal interview with the Dean of University College is extended to all candidates for degrees whose problems are such as to require careful examination and consultation.

Courses Offered by University College Paralleling Courses in Other Schools of the University

Courses for Graduate Credit

By action of the Board of Graduate Studies, graduates from recognized colleges are permitted to take certain courses in University College for which graduate credit may be granted to an aggregate not to exceed 8 units. Courses which carry graduate credit are designated by the Roman numeral VI in the description of the courses (see page 10.) The eligibility of students for graduate credit must be passed upon in the usual manner by the officers of the School of Graduate Studies and by the head of the department in which the student wishes to major.

Students intending to enroll for graduate credit in the courses offered in University College should procure from its office a sheet of special instructions at least ten days before the opening of the session. They should also file with the Registrar as early as possible a transcript of credit from the institution from which they received their degree.

Students working for graduate credit should consult the catalogue of the School of Graduate Studies in regard to procedure, requirements for degrees, and list of courses offered in that school. Copies may be obtained from G. W. Lamke, Registrar.

Courses for Credit in the College of Liberal Arts

Students are allowed toward an A.B. degree in the College of Liberal Arts a maximum of 60 units of credit earned in University College, subject to such other regulations as govern the degree. Students who desire to take at this time part of the prescribed work of the Freshman Year, or of the Sophomore Year, in the College of Liberal Arts are referred to page 22 of the Bulletin of June 20, 1935, for a statement of the courses they should follow. The opportunity to begin work at this time is not restricted to those who are ultimately to become candidates for the A.B. degree in the College of Liberal Arts, but is also open to those who are interested in the pre-professional courses, leading to degrees in Business Administration, Social Work, Law, Medicine, Nursing, Journalism, and Education.

Courses for Credit in the Schools of Engineering and Architecture

Freshman Year

The Freshman Year in the Schools of Engineering and Architecture includes the following courses, which are offered in University College in the evening in the second semester:

English, N 11-1A
Algebra and Trigonometry, N 20-12AE, N 20-12B
Analytic Geometry, N 20-12C, N 20-14AE
Descriptive Geometry, N 6-11B, N 6-12B
Chemistry, N 5-1B, N 5-1D

Sophomore Year

Other courses offered in the evening may be applied for credit in the Schools of Engineering and Architecture, but the various curricula of those schools are so diverse that each student must arrange in advance for such credit with the Dean of these schools. In certain Engineering curricula a good portion of the work of the Sophomore Year is now offered in University College.

Courses for Credit in the School of Business and Public Administration

Students who have completed 60 units of accredited college work, including at least 6 units in Economics, may take the courses of the Junior Year in the evening classes of University College.

Certificates Conferred by University College

University College offers for properly qualified students certificates in certain special fields upon the completion of definitely outlined curricula. The list of courses required in each curriculum may be found in the bulletin of June 20, 1935. These certificates are listed below, along with a brief statement of the content of each. High school graduation is required for full admission to candidacy for a certificate. Students with deficiencies in their preparatory training, however, may register for classes in University College to make up these deficiencies and at the same time carry a portion of the prescribed work of the certificate. All candidates for certificates must maintain an average grade of C.

Registration is open to new students at this time, and proper adjustment of the curriculum to the student's previous training will be made individually so far as that training and the requirements prescribed for the certificate will permit.

Junior Collegiate Certificate

Granted to students upon completion of 60 units of college work arranged in conformity with the first two years of the A.B. curriculum or one of the pre-professional curricula of the College of Liberal Arts.

Certificate in General Business

A three-year course planned to give students a well-rounded and adequate understanding of the elements of business.

Certificate in Accounting

For students desiring to become expert accountants, public accountants, or to prepare themselves for state examinations for the degree of Certified Public Accountant.

Certificate in Advertising

A curriculum designed for those wishing to enter the advertising profession.

Certificate in Real Estate

A curriculum intended for office men and salesmen in real estate offices, as well as for property owners desiring an understanding of the principles and practices fundamental to property management.

Certificate in Sales Management

A curriculum for salesmen looking toward sales management.

Certificate in Secretarial Studies

For students desiring to prepare themselves for the duties involved in taking care of the office of a business executive.

Certificate in Interior Decoration

A curriculum planned for those desirous of becoming interior decorators or those wishing to fit themselves for executive positions in this field.

Certificate in Architectural Draftsmanship

For students desiring to pursue the study of architecture but who are unable to take advantage of the full day curriculum.

Certificate in Structural Design

To serve the needs of those engaged in practical construction work whose advancement is limited by lack of sufficient training.

Certificate in Electrical Engineering

To serve the needs of those students who desire a broad theoretical knowledge of electrical engineering but are unable to take advantage of the complete day courses.

Certificates in (A) Heat Engineering (Steam and Gas) (B) Machine Design (C) Mechanical Engineering

Curricula for those desiring training either in the theory of heat engineering or in the mathematical and engineering fundamentals needed by the machine designer.

Pre-College Courses

The bulletin of June 20, 1935, contains full and detailed information about all pre-college courses. This bulletin may be had by addressing the Dean of University College, Washington University, St. Louis.

COURSES OF INSTRUCTION

Four types of courses are offered by University College during the second semester.

1. A number of courses have no first semester preceding them, but begin at this time. Such courses are marked with an asterisk (*). Wherever special prerequisites are essential, they are so stated in the description of the course.

2. Certain courses are so arranged that either semester may be taken independently, academic credit for such courses usually being contingent upon the completion of both semesters. The necessary information about courses of this sort is stated under the description.

3. A number of courses which run uninterruptedly throughout the year may be entered at this time by new students who are properly qualified. When the definite prerequisites are not stated in the catalogue, admission to such classes is usually based upon the consent of the instructor and is determined by the amount of preparation and experience a student has previously had in the subject.

4. Other courses running throughout the year and not regularly open to new students are so indicated in the course description.

Evening, Afternoon, and Saturday Courses are listed together. Evening Courses are designated by the letter "N" before the course number, e. g., N 45-60A. Afternoon Courses are designated by the letter "A" before the course number, e. g., A 11-1B. Saturday Courses are designated by the letter "S" before the course number, e. g., S 16-43.

The University reserves the right to withdraw courses or to modify them, as may seem wise. No course will be given for less than twelve regularly registered students. Where the minimum registration is higher, it is so stated in the announcement of the course.

Tuition, credit, course numbers apply to the second semester only.

The Roman numeral after the word "Credit" indicates the school of the University in which credit may be applied.

I. The College of Liberal Arts.
II. The School of Engineering.
III. The School of Architecture.
IV. The School of Business and Public Administration.
VI. The School of Graduate Studies.
X. The School of Nursing.
XI. The School of Fine Arts.
XII. University College: Credit for degrees and for Junior Collegiate Certificate.
XIIA. University College: Credit for special certificates in various curricula.
XIIB. Miscellaneous courses given in the main for special groups of adults or to satisfy special informal needs.
E. Entrance credit only, indicated in entrance units.

ACCOUNTING

A list of the courses required for the Certificate in Accounting may be had upon application to the office of University College.

***N 45-60A. Principles of Accounting.** Mr. Ernest and Mr. Lottman

7:45-9:30. Monday and Tuesday. Rooms 207 and B-2, Duncker Hall. Credit IV, XII, 4 units. $30.00.

This course is the equivalent of the first semester of N 45-60A, B. Students entering this course in the second semester may take Applied Theory of Accounts the following year, and may complete the credit in Principles of Accounting by electing N 45-60B the second semester of the following year.

N 45-60B. Principles of Accounting. Mr. Engel and Mr. Trumbo

7:45-9:30. Wednesday and Thursday. Rooms 107 and B-2, Duncker Hall. Credit IV, XII, 4 units. $30.00.

Partnerships, corporations, controlling accounts, advanced books of record. Open to new students upon consent of the instructor.

N 45-61B. Applied Theory of Accounts. Professor Krebs and Mr. Ernest

7:45-9:30. Tuesday. Room 208, Duncker Hall. Credit IV, XII, 2 units. $15.00.

Valuation of assets, liabilities, capital stock, surplus, reserves, sinking funds, depreciation. Prerequisite, N 45-60A, B. Open to new students in the second semester upon consent of the instructor.

***N 45-167. Income Taxes and Income Tax Accounting Problems.** Associate Professor Marsh

7:45-9:30. Monday. Room 101, Duncker Hall. Credit IV, VI,[1] XIIA, 2 units. $15.00.

A brief survey of State and Federal Income Tax legislation; detailed study of Missouri and Federal Income Tax laws and regulations; classification of income; exemptions, credits, depreciation, amortization, invested capital, recent court decisions and Treasury rulings; methods of determining gains and losses; preparation of individual, corporation, partnership, and fiduciary returns; instruction regarding the use of income tax forms, ownership certificates, corporation schedules, and claims for abatement, refund, and credit; special emphasis on the analysis and solution of practical problems.

N 45-8. Advanced General Accounting. Mr. Smith

7:45-9:30. Thursday. Room 106, Duncker Hall. Credit IV, XIIA, 2 units. $15.00.

Holding companies, consolidated statements, inter-company profits, branches, source of application of funds, instalment sales, co-insurance, etc. Prerequisite, N 45-60A, B, or the equivalent. Open to new students upon consent of the instructor.

N 45-162B. Factory Cost Accounting. Associate Professor Marsh

7:45-9:30. Wednesday. Room 106, Duncker Hall. Credit IV, VI,[1] XIIA, 2 units. $15.00.

Not open to new students unless they have had previous training in the subject.

[1] In addition to the definite prerequisite stated, students entering this course must have had at least two years of acceptable college work.

N 45-163B. Auditing. Mr. Good
7:45-9:30. Tuesday. Room 106, Duncker Hall. Credit IV, XIIA, 2 units. $15.00.

General review of a balance sheet order; auditors' reports; auditing the books of a manufacturing company, which involves a discussion of practical accounting and of such financial questions as might arise when the accounts are finally reviewed with the client. New students working for credit must pass a written examination before permission to enroll will be granted.

N 45-164B. Accounting Systems. Mr. Aumock
7:45-9:30. Thursday. Room 101, Duncker Hall. Credit IV, XIIA, 2 units. $15.00.

Design and installation of cost and accounting systems for various commercial organizations. Prerequisites, N 45-61A, B, and a thorough knowledge of internal check methods and control. Open to new students upon consent of the instructor.

N 45-16. C. P. A. Review. Mr. Mayors
7:45-9:30. Monday. Room 106, Duncker Hall. Credit XIIA, 2 units. $15.00.

A study of types of examinations given by accounting examining boards in the various states; solution and discussion of problems which have been given in the state examinations. Open to those who have had previous study or practical knowledge sufficient to enter in the middle of the year.

***N 45-22. Analysis of Financial Statements.** Mr. Boettler
7:45-9:30. Thursday. Room 105, Duncker Hall. Credit XIIA, 2 units. $15.00.

The principles to be followed in making a careful study of the balance sheet, the income statement, and other statements of industrial, public utility, and other corporations, with the intention of ascertaining their financial soundness, from the point of view of both the investor and the short-term creditor.

ADVERTISING

A list of the courses required for the Certificate in Advertising may be had upon application to the office of University College.

N 46-132B. Principles of Advertising. Mr. Ruebel
7:45-9:30. Monday. Room 105, Duncker Hall. Credit IV, XII, 2 units. $15.00.

Open to new students upon consent of the instructor. Such students should possess some practical knowledge of advertising.

N 46-4. Advertising Copy Writing. Mr. Ruebel
7:45-9:30. Wednesday. Room 106, Brookings Hall. Credit XII, 2 units. $15.00.

The planning and execution of complete advertising campaigns, embracing all the commonly used media, with emphasis upon clear, idiomatic English and suitability of copy-style to medium and reader or audience. Prerequisite, N 46-132A, or the equivalent. Open to new students upon consent of the instructor.

N 46-8. Retail Advertising. Mr. Goldstein
7:45-9:30. Thursday. Room A, January Hall. Credit XIIA, 2 units. $15.00.

Fundamental differences between general and retail advertising. How advertising policy and budget of a retail store are determined. How to choose

and use retail advertising media. Preparation of retail copy and layouts. Application of advertising to the practical problems of the retailer. Prerequisite, N 46-132A, B or N 46-3, 4, or the equivalent in practical experience. Open to new students upon consent of the instructor.

***N 46-11Y. Radio in Advertising.** Mr. Place

7:45-9:30. Wednesday. Room 108, Brookings Hall. Credit XIIB, 2 units. $15.00.

A study of radio as an advertising medium; how to use it successfully; writing for radio; program technique; the continuities of current radio productions; a comparison of chain and local programs; the use of electrical transcription—spot announcements; the cost of time and talent; behind the scenes in radio dramatics; how a radio station is conducted.

***N 46-14. Advertising Appeals.** Dr. Charles Bennett

7:45-9:30. Tuesday. Room 228, Brookings Hall. Credit XIIB, 2 units. $15.00.

The application of the principles of psychology to the problems involved in the proper selection and preparation of effective advertising copy, layout, illustrations, and typography. Critical analysis of appeals for specific products and industrial goods. The scientific approach for developing good advertising which is based upon scientific knowledge of psychology and research.

N 44-30B. Merchandising and Systems of Distribution.
Associate Professor Klamon

For description, see page 17.

ANTHROPOLOGY

N 10-2B. Art and Archaeology of the Ancient World.
Associate Professor Mylonas

For description, see page 15.

N 10-2D. The Art of Christianity. Dr. Huntley

For description, see page 16.

N 30-1B. Introduction to Physical Anthropology.
Assistant Professor Williams

For description, see page 41.

N 30-2B. Introduction to Cultural Anthropology.
Professor Bodenhafer

For description, see page 41.

N 30-3B. Life of the Past. Assistant Professor Werner

For description, see page 30.

ARCHITECTURE

A list of the courses required for the Certificate in Architectural Draftsmanship may be obtained upon request.

***N 55-15X. Essentials of Building Construction.**
Associate Professor Fitch

7:45-9:30. Monday. Room 116, Givens Hall. Credit XIIB, 2 units. $15.00.

A non-technical course paralleling N 55-15 and 16, designed to enable one to check buildings in the process of construction, to appraise completed structures before purchase, or modernize existing homes. Discussions of such subjects as soundproofing, heat insulation, air conditioning, cooling.

Students may be admitted to the second semester of the following courses if after consultation with the instructors in charge their qualifications are found to be adequate. For information concerning fees either for an individual course or for a combination of courses, consult the office of University College.

N 55-2. Perspective. Professor Hill
7:30-8:30. Monday. Credit XIIA, 1 unit.
The delineation in perspective of buildings from the geometrical projections.

N 55-4. Architectural Drawing. Professor Hill
8:30-10:30. Monday and Wednesday. Credit XIIA, 1⅓ units.

N 55-6. Elementary Design. Mr. Brumbaugh
8:00-10:30. Tuesday and Friday. Credit XIIA, 1⅔ units.

N 55-8. Intermediate Design. Mr. Brumbaugh
7:30-10:30. Tuesday and Friday. Credit XIIA, 2 units.

N 55-10. Advanced Design. Mr. Brumbaugh
7:30-10:30. Tuesday and Friday. Credit XIIA, 2 units.

N 55-14. History of Architecture II. Professor Hill
7:30-8:30. Wednesday. Credit XIIA, 1 unit.

N 55-16. Architectural Construction I. Associate Professor Fitch
7:45-9:30. Wednesday. Credit XIIA, 2 units.

N 55-20. Free-hand Drawing. Mr. Schmidt
7:30-10:30. Monday. Credit XIIA, 1 unit.

ART, HISTORY OF ART AND ARCHAEOLOGY

(For courses in Architecture, see above; for Interior Decoration, see page 32)

Art

Students interested in the degree of Bachelor of Science in Education for Teachers of Art may obtain full information by applying to the office of University College. To facilitate such consultation students should send transcripts of credits for work previously completed to the Dean of University College well in advance of their personal interview.

A 17-7. Public School Art. Miss Flinn
4:00-6:00. Thursday. Art School. Credit XII, 1½ units. $12.50.
Those desiring to enter at this time should consult the instructor.

A 17-10. The Appreciation of Art. Mr. Wuerpel
3:45-5:45. Wednesday. Art Museum. Credit XII, 2 units. $12.50.
Discussions of the periods and the arts of different countries, and what produced them. Students desiring to enter at this time should consult the instructor.

A 17-12. Art in Life. Mr. Wuerpel
3:45-5:45. Tuesday. Art Museum. Credit XII, 2 units. $12.50.
A study of the relation between every-day living and aesthetics. Those desiring to enter at this time must consult the instructor and must have completed A 17-9, 10 or the equivalent.

Students may be admitted to the second semester of the following courses if after consultation with the instructors in charge their qualifications are found to be adequate.

N 17-8. Free-hand Drawing (Elementary). Mr. Conway
7:30-9:30. Thursday and Friday. Art School. Credit I, III, XI, XII, 1½ units. $25.00.

N 17-10. Free-hand Drawing (Advanced). Mr. Conway
7:30-9:30. Thursday and Friday. Art School. Credit I, III, XI, XII, 1½ units. $25.00.

N 17-12. Elementary Design. Mrs. Wright
7:30-9:30. Tuesday and Wednesday. Art School. Credit I, XI, XII, 1½ units. $25.00.

N 17-14. Advanced Design. Mrs. Wright
7:30-9:30. Tuesday and Wednesday. Art School. Credit I, XI, XII, 1½ units. $25.00.

N 17-22. Life Class. Mr. Goetsch
7:30-9:30. Thursday and Friday. Art School. Credit III, XI, XII[1], 1½ units. $27.00.

N 17-24. Figure Sculpture. Miss Plant
7:30-9:30. Tuesday and Wednesday. Art School. Credit XI, XII, 1½ units. $27.00.

N 17-26. Ornamental Sculpture. Miss Plant
7:30-9:30. Tuesday and Wednesday. Art School. Credit III, XI, XII, 1½ units. $27.00.

N 17-28. Commercial Design. Mr. Nicholson
7:30-9:30. Tuesday and Wednesday. Art School. Credit XI, XII[1], 1½ units. $27.00.

N 17-30. Portraiture (Drawing and Color). Mr. Carpenter
7:30-9:30. Tuesday and Wednesday. Art School. Credit XI, XII[1], 1½ units. $27.00.

N 17-32. Fashion Illustration. Miss Recht
7:30-9:30. Thursday. Art School. Credit XI, XII[1], 1½ units. $17.00.

History of Art and Archaeology

N 10-2B. Art and Archaeology of the Ancient World.
Associate Professor Mylonas
7:45-9:30. Monday. Room 106, Givens Hall. Credit I, XII, 2 units. $12.50.

A survey of the Archaeology and Art of Classical Greece and Italy to the beginning of the Early Christian Era. Special emphasis will be laid on the results of recent excavations and on the study of architecture, sculpture, and painting. The lectures will be illustrated. Open to new students upon consent of the instructor.

[1] These courses may be counted toward the elective in the Senior Year of the curriculum for the degree of Bachelor of Science in Education for Teachers of Art.

N 10-2D. The Art of Christianity. Dr. Huntley
7:45-9:30. Thursday. Room 106, Givens Hall. Credit I, XII, 2 units. $12.50.
The art of the West from the beginning of the Renaissance to the present day. The Renaissance in Italy will be emphasized. The lectures will be illustrated. Open to new students upon consent of the instructor.

ASTRONOMY

N 3-6. Descriptive Astronomy. Assistant Professor Stephens
7:45-9:30. Monday. Room 111, Cupples Hall I. Credit XII, 2 units. $12.50.
A non-mathematical exposition of the facts and theories concerning the stars and nebulae and the structure of the stellar universe. Constellation study. Frequent use of the six-inch equatorial telescope and of lantern slides. Open to new students in the second semester.

BOTANY

N 4-1D. Principles of Plant Life II. Associate Professor Reynolds
7:30-10:15. Wednesday. Room 205, Rebstock Hall. Credit I, XII, 1½ units. $15.00[1].
Not regularly open to new students in the second semester.

N 4-7Y. Taxonomy and Ecology of the Flowering Plants—Local Flora. Mr. Barkley
7:45-9:30. Thursday. Room 215, Rebstock Hall. Credit I, XII, 1½ units. $15.00.
Especially recommended to teachers, to leaders of youth clubs, and to those informally interested in Botany. Open to new students upon consent of the instructor.

BUSINESS

Business Courses for Degree Credit

The following courses, which parallel in part the required studies of the Junior Year in the School of Business and Public Administration, are open for credit toward the degree of that School to students having 60 units in standard college courses, including a full year in Economics. Students desiring to enroll in these courses and to obtain credit toward a degree must present a transcript of their credentials and receive the approval of the Dean of University College before completing their registration.

Fuller information concerning these courses and their relation to the degree of the School of Business and Public Administration may be had upon application to the office of University College.

Students who do not desire credit in these courses will be held to the same minimum requirements and must have their registration approved by the Dean.

[1] Laboratory fee, $2.00.

N 44-30B. Merchandising and Systems of Distribution.
Associate Professor Klamon

7:45-9:30. Thursday. Room 208, Duncker Hall. Credit IV, XIIA, 2 units. $15.00.

A study of problems relating to marketing methods and selling policies: transportation; finance; brokers; organized produce and stock exchanges; wholesale dealers and jobbers; department store and chain store systems; purchasing and stock turnover; price maintenance; advertising. Open to new students who have had business experience.

N 44-31B. Business Administration and Organization.
Associate Professor Bennett

7:45-9:30. Tuesday. Room 101, Duncker Hall. Credit IV, XII, 2 units. $15.00.

The problems of the executive; factory location, internal arrangements and administration, factory departments, time and motion study; business forecasting in relation to budget control; standardization of output, wage system, personnel study, social work, fatigue. Concrete business cases and problems will be studied, and typical industries, such as the textile, metals, rubber, building materials, will be analyzed. Textbook assignments, lectures, class reports, and collateral reading. Open to new students in the second semester.

***N 7-20A. History and Problems of Labor.** Mr. Bothwell
For description of this course, see page 19.

***N 7-40. Money and Banking.** Associate Professor Cable
For description of this course, see page 20.

N 7-70B. Introduction to Statistics. Assistant Professor Zempel
For description of this course, see page 20.

***N 44-50C. The Law of Business, Part III.**
Associate Professor Bennett

7:45-9:30. Thursday. Room 207, Duncker Hall. Credit IV, XII, 2 units. $15.00.

Sales, partnership, and corporations: transfer of title; rights of innocent purchasers; bulk sales law; warranties; formation of partnership and corporation; liabilities of partners and stockholders; contracts of promoters; corporate powers; rights of creditors.

Special Courses in Business

***N 44-10. Motor Transportation.** Professor Stephens

7:45-9:30. Wednesday. Room 105, Duncker Hall. Credit XIIB, 2 units. $15.00.

In this course dealing primarily with the motor truck, though also with the bus, among the topics studied will be the growth and present magnitude of these agencies of transportation; their legal status; an examination of their costs; rates; relationship to other agencies of transportation; their place in a wise and equitable public policy.

***N 44-14. Problems in Business Management and Leadership.**
Mr. Royse

7:45-9:30. Thursday. Room 106, Brookings Hall. Credit XIIB, 2 units. $15.00.

A course for office managers, department supervisors, and for those in subordinate positions training for greater management responsibility. Lectures, analyses, and discussions of problems encountered by the supervisor. The problems will be on such subjects as supervision, employee selection and

training, promotions, planning, work analysis, standards, measurement, compensation and incentives, and department and company control. Students will be encouraged to bring in practical problems for consideration.

*N 44-16. **Investment Securities.** Associate Professor Cable
7:45-9:30. Monday. Room 208, Duncker Hall. Credit XIIA, 2 units. $15.00.

The theory and mathematics of investment; the work of bond houses, underwriting syndicates, and stock exchanges in the distribution of securities; real estate bonds and mortgages; the bonds of federal, state, and local governments; the stocks and bonds of railroad, public utility, industrial, and mining companies; causes of the cycle of security prices and the value of business barometers.

CHEMISTRY AND CHEMICAL ENGINEERING

N 5-1B. **General Inorganic Chemistry.** Professor McMaster
7:15-10:15. Wednesday. Busch Hall. Credit I, II, III, XII, 1½ units. $15.00.[1]

Not regularly open to new students in the second semester.

N 5-1D. **General Inorganic Chemistry.** Professor McMaster
7:15-10:15. Wednesday. Busch Hall. Credit I, II, III, XII, 1½ units. $15.00.[1]

Not regularly open to new students in the second semester.

N 5-14D. **Quantitative Analysis.** Associate Professor Ball
7:15-10:15. Wednesday. Busch Hall. Credit I, II, III, XII, 1½ units. $15.00.[1]

Not regularly open to new students in the second semester.

N 5-21B. **Organic Chemistry.** Assistant Professor Goldstein
7:45-9:30. Thursday. Busch Hall. Credit I, XII, 2 units. $15.00.

Not regularly open to new students in the second semester.

N 5-25B. **Physical Chemistry.** Assistant Professor Rodewald
7:45-9:30. Thursday. Busch Hall. Credit I, VI,[2] XII, 2 units. $15.00.

Not regularly open to new students in the second semester.

*N 5-34B. **Applied Electrochemistry.** Associate Professor Stout
7:45-9:30. Thursday. Busch Hall. Credit II, 2 units. $15.00.

Discusses in detail some of the modern uses of electrical energy in the production of chemical products. The following topics are considered in detail: electroplating of metals, electroextraction and electrorefining of metals; storage batteries, caustic soda-chlorine cells, electric furnace design, electric steel. Prerequisite, N 5-25A, B or the equivalent.

DRAFTING

N 6-11B. **Mechanical Drafting.** Associate Professor Siroky
7:15-10:15. Thursday. Room 3, Cupples Hall I. Credit II, XIIA, 1½ units. $15.00.

Instruction in this course is largely individual, and students may be admitted to the second semester upon the consent of the instructor. Prerequisite for credit, Solid Geometry.

[1] In addition a deposit of $10.00 is required upon registration to cover materials and breakage. Unused balance is returned at the end of the course.

[2] To secure Credit VI, registrants must have had at least two years of acceptable college work.

N 6-12B. Descriptive Geometry. Associate Professor Bubb
7:15-10:15. Tuesday. Room 3, Cupples Hall I. Credit II, XIIA, 1½ units. $15.00.

Students may be admitted to the second semester of this course upon the consent of the instructor. Prerequisite for credit, Solid Geometry and N 6-11A, B or the equivalent.

ECONOMICS

(N 7-2A, B, and C are prerequisite to all advanced courses in Economics.)

***N 7-2A. Economics, Part I.**
Associate Professor Bennett or ————
7:45-9:30. Wednesday. Room 208, Duncker Hall. Credit I, XII, 2 units. $15.00.

A brief survey of the economic development of the United States and of economic concepts; discussion of the economics of consumption, the laws of value, principles of price-making, monopoly and its effect upon social life; study of the questions of wages, interest, profit, and rent.

***N 7-2B. Economics, Part II.** Professor Lippincott
7:45-9:30. Monday. Room 107, Duncker Hall. Credit I, XII, 2 units. $15.00.

The course includes a study of the organization of business; advantages and disadvantages in conducting enterprises under various forms; relation of government to business; banking organization and development; money problems; credit and its problems; various practical money and banking problems; international trade; trade policy.

***N 7-2C. Economics, Part III.** Professor Stephens
7:45-9:30. Tuesday. Room 105, Duncker Hall. Credit I, XII, 2 units. $15.00.

A study of certain practical problems, such as labor relations, problems of agriculture, public revenue, systems of taxation, and public debt.

N 7-7B. Resources and Industries of the World.
Professor Lippincott
7:45-9:30. Tuesday. Room 207, Duncker Hall. Credit I, XII, 2 units. $15.00.

Resources of the leading countries and world divisions; a study of the industries which have been developed upon these resources; world commerce in raw and finished products; commercial and industrial policies of the nations; problems of international economic relations.

***N 7-20A. History and Problems of Labor.** Mr. Bothwell
7:45-9:30. Monday. Room B-1, Duncker Hall. Credit I, IV, VI,[1] XII, 2 units. $15.00.

A study of economic theory in relation to labor; the analysis of special labor problems such as unemployment, industrial risks, old age, child labor; the development and administration of legislation on labor problems; and the history and function of trade unions.

[1] In addition to the definite prerequisites stated, students entering this course must have had at least two years of acceptable college work.

***N 7-40. Money and Banking.** Associate Professor Cable
7:45-9:30. Wednesday. Room 207, Duncker Hall. Credit I, IV, VI,[1] XII, 2 units. $15.00.

A study of money, bank credit, and prices. Monetary systems of the United States and major European countries are considered in some detail. Federal Reserve functions, bearing on note issues and credit control, are given special emphasis. Each student will be required to make a special investigation of some problem selected in conference with the instructor.

N 7-70B. Introduction to Statistics. Assistant Professor Zempel
7:45-9:30. Thursday. Room B-1, Duncker Hall. Credit I, IV, VI,[1] XII, 2 units. $15.00.

The elementary theory of statistical methods and the application of statistical technique to economic and social theory. The course will include practice in the statistics laboratory. Prerequisite for credit, Economics 7-2A, B, C. Students not desiring credit may be admitted by consent of the instructor.

***N 7-2Y. Contemporary Economic Problems.**
Associate Professor Klamon
7:45-9:30. Wednesday. Room A, January Hall. Credit XIIB, 2 units. $15.00.

A critical analysis and discussion of the more important current economic problems with particular reference to some of the recent economic legislation.

EDUCATION

(For affiliated courses see Art, Music, Physical Education, Psychology, Sociology.)

N 8-2. Educational Psychology. Assistant Professor Gribble
7:45-9:30. Monday. Room 102, Eads Hall. Credit I, XII, 2 units. $12.50.

A study of the applications of psychology to problems of teaching. An additional half unit or unit of credit may be arranged upon application to the office of University College. Open to new students.

N 8-130B. Principles of Secondary Education.
Associate Professor Reals
7:45-9:30. Tuesday. Room 218, Eads Hall. Credit I, VI,[1] 2 units. $12.50.

The aims of the secondary school and the relation of the subjects to each of these aims; a brief treatment of extra-curricular activities. Prerequisite, N 8-1, 2. Open to new students upon consent of the instructor.

N 8-81B. Principles of Teaching. Professor Wright
7:45-9:30. Wednesday. Room 111, Eads Hall. Credit I, XII, 2 units. $12.50.

Prerequisites, nine hours in Education, including a course in Secondary Education, and preferably teaching experience. New students wishing to work for credit must consult the instructor before registering. Such students usually register for three units and take an examination covering a minimum of the reading required during the first semester. Arrangements for credit in *Practice Teaching* may be made through Professor Wright.

[1] In addition to the definite prerequisites stated, students entering this course must have had at least two years of acceptable college work.

N 8-160B. Introduction to Educational Tests and Measurements. Associate Professor Lentz

7:45-9:30. Thursday. Room 218, Eads Hall. Credit I, VI,[1] XII, 2 units. $12.50.

The practical application of principles and techniques of measurement; emphasis upon individual projects. Prerequisite, N 8-1, 2. Open to new students upon consent of the instructor.

N 8-178B. Instruction in Reading: Remedial Treatment. Assistant Professor Gribble

7:45-9:30. Wednesday. Room 113, Eads Hall. Credit I, VI,[1] XII, 2 units. $12.50.

Testing, diagnosis, and remedial work in reading. Case studies of children and adults who have inadequate reading habits and skills. Remedial programs, based upon the findings, will be developed. Prerequisite, N 8-1, 2. Open to new students upon consent of the instructor.

***N 8-31A. Commercial Education Problems.** Mr. Dake

7:45-9:30. Wednesday. Room 229, Brookings Hall. Credit XII, 2 units. $12.50.

Survey of the entire field of commercial education, its history and development; the construction of the commercial curriculum; the bases upon which it is built, and its adaptation to the needs of the community; a discussion of the individual problems involved in the teaching of the various commercial subjects; their content and methods of presentation.

This course is offered to assist teachers of commercial subjects or those contemplating entering this field, and may be applied on the degree of Bachelor of Science in Education.

***A 8-72. Children's Literature.** Miss Clarke

4:15-6:00. Wednesday. Room 104, Brookings Hall. Credit XII, 2 units. $12.50.

Aims to give students a knowledge of the various types of children's literature, to make them familiar with the best children's books, and to aid them in selecting and evaluating books for the different grade levels. Prerequisite, N 8-1, 2.

Parent Education

***N 9-6. The Pre-School Child.** Dr. Kubitschek

7:45-9:30. Wednesday. Room 101, Duncker Hall. Credit XII, 2 units. $12.50.

This course deals with the normal development and behavior of the preschool child. The influence on the child of such variable factors as state of physical health, intellectual endowment, and emotional tone of the family. Particular attention is given to practical methods of mental and physical habit training. The course is adapted to instruction of parents as well as students in the field.

N 8-14. Child Development and Parent Education. (Case Studies in Child Guidance.) Dr. Meltzer

7:45-9:30. Tuesday. Room 100, Brookings Hall. Credit XII, 2 units. $12.50.

Case studies from clinical practice selected to illustrate the more significant facts of child development and the mental hygiene methods for guiding children. Planned for parents, teachers, and social workers. Open to new students if properly qualified.

[1] In addition to the prerequisite stated, registrants must have had at least two years of acceptable college work.

Vocational Guidance and Counseling

N 9-20. Vocational Psychology and Guidance. Mr. Parker
7:45-9:30. Thursday. Room 203, Eads Hall. Credit XII, 2 units. $12.50.[1]

An orientation of the techniques in Vocational Psychology and Vocational Guidance as they apply particularly to personnel administration and vocational counseling and education. Demonstrations of individual and group testing and interpretation, interviewing methods, personality ratings, training procedures, and simple statistical treatment. Actual vocational guidance cases will be used for training in clinical methods. Open to new students upon consent of the instructor.

ENGINEERING

Chemical Engineering

Students should see courses listed under Chemistry. Most of the first two years in Chemical Engineering are now offered in University College. Students interested in this curriculum should plan their work with the Dean.

Civil Engineering

A statement of courses required for the Certificate in Structural Design may be obtained from the office of University College.

***N 50-11B. Higher Surveying.** Mr. Billings
7:30-9:30 Monday; and 2:00-5:00 Saturday. Room 215, Cupples Hall I. Credit XIIB, 3 units. $30.00.

Classroom study and field work involving railroad and highway surveys; topographic mapping by plane-table; transit and stadia surveys with plots; determination of the true meridian. Prerequisite, Elementary Surveying.

***N 50-14. Engineering Materials and Inspection.**
Assistant Professor Brust
7:30-9:30. Tuesday. Room 213, Cupples Hall I. Lectures and discussions.
7:30-10:15. Thursday. Engineering Laboratory. Credit XIIA, 3½ units. $27.00.

Classroom and laboratory study of the physical properties and mechanics of the more common engineering materials, including wood, iron, steel, brick, cement, and concrete; discussion of their proper uses as indicated by tests and as exemplified by standard specifications.

About half the time will be spent in the materials laboratory performing the more common tests. Prerequisite, Elementary Statics. Students who wish to fit themselves for inspectors only may be admitted to this course without credit in N 50-13, provided they can present evidence of satisfactory preparation or experience.

N 50-22. Principles of Steel Structures.
Associate Professor Derby
7:30-10:15. Tuesday. Room 200, Cupples Hall I. Credit XIIA, 1½ units. $17.50.

A study of the fundamental principles of statics as applied in steel roof trusses, bridges, and buildings; determination of stresses under dead and live loads by analytical and graphical methods; design of simple beams, girders, columns; use of steel handbook. New students must consult the instructor before registering.

[1] New registrants for the course pay a $2.00 fee for tests.

N 55-22. Estimating and Contracting. Mr. Murphy
7:30-10:00. Thursday. Room 9, Givens Hall. Credit XIIB, 2 units. $15.00.

Methods for computing quantities in the correct estimating of a building; proper methods of taking off items and reading plans; accident prevention, workmen's compensation, standard contracts, day labor, surety bonds, legislation, lien laws, separate contracts, labor agreements, building and safety codes, licensing of contractors, jurisdictional disputes. Designed for contractors, estimators, foremen, superintendents, building trades mechanics, home builders, and others who are interested in construction on a small or large scale. Open to new students upon consent of the instructor.

Electrical Engineering

A statement of courses required for the Certificate in Electrical Engineering may be obtained from the office of University College.

***N 52-2. Principles of Direct Current Machinery.** Professor Hake
7:30-10:15. Monday. Room 200, Cupples Hall II, and Engineering Laboratory. Credit XIIA, 1½ units. $17.50.

Theory of direct current generators and motors of the series, shunt, and compound types, together with laboratory experiments involving practical testing and operation of these machines; development of rules for winding armatures. Prerequisite, Elements of Electrical Engineering.

N 52-4. Elements of Alternating Currents. Professor Hake
7:30-10:15. Tuesday. Room 200, Cupples Hall II, and Engineering Laboratory. Credit XIIA, 1½ units. $17.50.

Not regularly open to new students.

N 52-6. Alternating Current Machinery.
Associate Professor Glasgow
7:30-10:15. Thursday. Room 218, Cupples Hall II, and Engineering Laboratory. Credit XIIA, 1½ units. $17.50.

To enter this course, new students must secure consent of the instructor.

N 52-20. Radio Communication. Associate Professor Glasgow
7:45-9:30. Wednesday. Room 200, Cupples Hall II. Credit XIIB, 2 units. $15.00.

Vacuum tube circuits employed in receivers and transmitters, including the theory and design of such circuits. Prerequisite, a knowledge of alternating currents and elementary vacuum tube theory. New students must obtain their permission to register from the instructor.

Industrial Engineering

N 53-2. Industrial Engineering. Professor Langsdorf
7:45-9:30. Monday. Room 105, Cupples Hall I. Credit XIIB, 2 units. $15.00.

Historical background of the modern industrial system. Engineering features of plant location and layout, operation and maintenance. Material-handling machines and systems. Production studies. Control of production through standardization, time and motion study, and wage incentive systems. Principles of factory cost finding. Analysis of the problems of investment. Choice of design as affected by financial considerations. Special problems and assigned reading to meet the needs of individual students. Open to new students upon consent of the instructor.

Mechanical Engineering

A statement of the courses required for the Certificate in Heat Engineering and of those required for the Certificates in Machine Design and in Mechanical Engineering may be had upon application to the office of University College.

N 51-1B. Applied Mechanics. Associate Professor Bubb
7:45-9:30. Monday. Room 113, Cupples Hall I. Credit II, III, XII, 2 units. $15.00.
Prerequisite, two units in Applied Mechanics or the equivalent.

N 51-4. Kinematics (Mechanisms). Professor Berger
7:30-10:15. Wednesday. Room 103, Cupples Hall II. Credit XIIA, 1½ units. $17.50.
Open to new students who present two units in Kinematics or the equivalent.

N 51-6. Elementary Thermodynamics. Mr. Kuenzel
7:45-9:30. Thursday. Room 114, Cupples Hall II. Credit XIIA, 2 units. $15.00.
Open to new students only after consultation with the instructor. Prerequisite, Applied Mechanics.

N 51-8. Machine Design. Professor Berger
7:30-10:15. Tuesday. Room 114, Cupples Hall II. Credit XIIA, 1½ units. $17.50.
Prerequisites, a working knowledge of Algebra and Trigonometry, and the first semester of Machine Design or the equivalent.

N 51-10. Heat Engineering (Lectures and Laboratory).
Professor Ohle and Mr. Kuenzel
7:45-9:30. Monday. Room 102, Cupples Hall II. Lecture. Professor Ohle.
7:30-10:15. Tuesday. Laboratory, Cupples Hall II. Mr. Kuenzel. Credit XIIA, 3½ units. $30.00.
Open to new students who have had the equivalent of the work of the first semester.

N 51-12. Heating and Air Conditioning. Professor Ohle
7:45-9:30. Tuesday. Room 102, Cupples Hall II. Credit XIIA, 2 units. $15.00.
The determination of heat losses, the theory and design of hot-air, steam, and hot-water heating systems, and a study of ventilation and air-conditioning requirements for comfort and health in public and private buildings, as well as air-conditioning for industrial processes.

ENGLISH

Courses in Writing and in Literature for College Credit

***N 11-1A. Composition and Rhetoric.** (To be announced)
7:45-9:30. Tuesday and Friday. Room 206, Brookings Hall. Credit I, II, III, XII, 4 units. $25.00.
A practical course in the writing of English. Review of the principles of grammar and rhetoric; themes at stated intervals; collateral reading; conferences with the instructor. Open for credit to those who have had a standard high school course in English or the equivalent.

N 11-1B. Composition and Rhetoric (Continuation of N 11-1A). Assistant Professor Jelinek, Mr. Jensen, Mr. Schmitz

7:45-9:30. Tuesday. Rooms 104, 204, and 208, Brookings Hall. Credit I, II, III, XII, 2 units. $12.50.

Continues the work of N 11-1A, and together with it is the full equivalent of Freshman English in the College of Liberal Arts.

N 11-1BX. Composition and Rhetoric (Continuation of N 11-1AX). Mr. Bowling

7:45-9:30. Tuesday. Room 203, Brookings Hall. Credit I, XII, 2 units. $12.50.

A continuation of the work of N 11-1AX, and together with it will be accepted as the equivalent of Freshman English in the College of Liberal Arts upon the recommendation of the instructor.

A 11-1B. Composition and Rhetoric (Continuation of A 11-1A). Miss Roach

3:30-5:00. Monday and Thursday. Room 100, Brookings Hall. Credit I, II, III, XII, 3 units. $18.75.

This course, together with A 11-1A, is the full equivalent of Freshman English in the College of Liberal Arts.

N 11-3B. Advanced English Composition. Types of Writing. Assistant Professor Stout

7:45-9:30. Tuesday. Room 201, Brookings Hall. Credit I, XII, 2 units. $12.50.

New students desiring to enroll in this course should consult the instructor before registering.

N 11-10B. The Short Story. Associate Professor Webster

7:45-9:30. Tuesday. Room 109, Brookings Hall. Credit I, XII, 2 units. $15.00.

Students desiring to enroll in a course in the Short Story may be admitted to N 11-3B or N 11-10B, depending upon their previous experience in writing. All such students should consult Professor Webster before registering.

***N 11-11B. General Introduction to English Literature.** Assistant Professor Smith

7:45-9:30. Wednesday. Room 115, Eads Hall. Credit I, XII, 2 units. $12.50.

English literature from the end of the Sixteenth Century to the Romantic Movement. Prerequisite, N 11-1A, B, or the equivalent.

Students may complete the work of English 11, required of sophomores in the College of Liberal Arts, by taking in addition to this course, N 11-11A and N 11-11C in the first semester of 1936-37.

N 11-14B. American Literature. Mr. McDermott

7:45-9:30. Wednesday. Room 201, Brookings Hall. Credit XII, 2 units. $12.50.

Designed to show the close relation between the social and literary development of the United States, as well as to give the biographical and critical material necessary to a student of American literature. Open to new students upon consent of the instructor.

N 11-21B. Shakespearean Tragedy. Professor Mackenzie
7:45-9:30. Tuesday. Room 229, Brookings Hall. Credit I, VI,[1] XII, 2 units. $12.50.

The course will deal with the various theories of tragedy, with particular emphasis upon the tragedy of Shakespeare. Two plays will be studied in detail. Prerequisite, N 11-11A, B, C or the equivalent. Open to new students upon consent of the instructor.

***N 11-22B. The Novel in England from Defoe to Hardy.**
Professor Jones
7:45-9:30. Tuesday. Room 106, Brookings Hall. Credit I, VI,[1] XII, 2 units. $12.50.

A critical study of a number of representative novels by the chief English novelists, and a more rapid reading of others. Prerequisite for credit, N 11-11A, B, C.

N 11-24B. Contemporary British and American Literature.
Associate Professor Parks
7:45-9:30. Thursday. Room 108, Brookings Hall. Credit I, XII, 2 units. $12.50.

The verse of the Twentieth Century will be studied, notably the work of Yeats, Masefield, and Robinson, of the imagist and "modernist" poets, and of the writers on American themes. Some reading in dramatic literature will follow, and attention will then be paid to such writers as William James, Santayana, Chesterton, Wells, and Veblen. Open to new students.

N 11-25B. Twentieth Century Drama in England.
Assistant Professor Buchan
7:45-9:30. Monday. Room 204, Brookings Hall. Credit I, XII, 2 units. $12.50.

A reading and discussion of the works of such English dramatists as Granville Barker, St. John Ervine, Somerset Maugham, Noel Coward. Open to new students who have some familiarity with the work of Shaw, Galsworthy, and the Irish dramatists dealt with in the first semester.

Courses in Speech

***N 11-7A. Introductory Public Speaking, Part I.** Mr. Carlisle
7:45-9:30. Wednesday. Room 228, Brookings Hall. Credit I, XII, 2 units. $12.50.

A beginning class for new students. The study of speech composition, audience psychology, the technique of delivery, and actual practice in speaking to prepare the student to take part in group discussions and committee meetings, to talk before informal gatherings, and to address organizations.

N 11-7B. Introductory Public Speaking, Part II.
Assistant Professor Howes
7:45-9:30. Wednesday. Room 103, Eads Hall. Credit I, XII, 2 units. $12.50.

A continuation course not usually open to new students in the second semester.

[1] In addition to the definite prerequisite stated, students entering this course must have had at least two years of acceptable college work.

N 11-7Y. Introductory Public Speaking (Non-Credit). Assistant Professor Howes
7:45-9:30. Thursday. Room 103, Eads Hall. Credit XIIB, 2 units. $12.50.

A continuation course not usually open to new students in the second semester. Parallels N 11-7B and intended for adults not primarily interested in credit.

N 11-52. Phonetics—Spoken English. Mrs. Ulrich
7:45-9:30. Tuesday. Room 203, Brookings Hall. Credit I, XII, 2 units. $12.50.

Study of the psychology of speech and the working out of individual problems through proper breathing, voice production, and development of acceptable standards in spoken English. Standards in English are approached through International Phonetics. Open to new students.

N 11-34. The Study of Expressive Speech. Joan Patterson
7:45-9:30. Monday. Room 108, Brookings Hall. Credit XII,[1] 2 units. $12.50.

Study and practice for the purpose of developing a well modulated speaking and reading voice. Prerequisite for credit, a knowledge of proper breathing, production of sound, and articulation. Open to new students upon consent of the instructor.

N 11-36. Recreational Dramatics. Associate Professor Carson
7:45-9:30. Monday. January Court Room. Credit XII, 2 units. $12.50.

A course designed primarily for teachers and for others who may wish to produce amateur plays. Careful training in the selection of plays, preparation of prompt-books, stage directions, and the fundamentals of acting. Open to new students.

N 11-40. The Art of Story Telling. Mrs. Clifford
7:45-9:30. Tuesday. Room 209, Brookings Hall. Credit XII,[1] 2 units. $12.50.

The classification of the story, the arrangement, the gradation of children's literature, and drills in conversational vocabulary. Work in verse speaking choirs for children of all grades and adults. Special work in children's poetry. Open to new students.

N 11-44. Advanced Story Telling. Mrs. Clifford
7:45-9:30. Monday. Room 209, Brookings Hall. Credit XII,[1] 2 units. $12.50.

Plot work, gradation, platform work, voice, breath, vocabulary. A good class for those who wish to conduct speaking choirs. Open to new students.

N 11-W2. Advanced English for Educated Foreigners. Miss Sante
7:45-9:30. Thursday. Room 204, Brookings Hall. Credit XIIB, 2 units. $12.50.

Students interested in this course should consult Miss Sante.

[1] These courses may be elected by candidates for the degree of B.S. in Education provided the student is preparing to teach in either the primary or the elementary grades.

A 11-42. The Speech Arts. Mrs. Campbell
3:30-5:00 p. m. Tuesday. Room 200, Brookings Hall. Credit XIIB, 2 units. $12.50.
Designed for those who wish to improve their ability to speak or read before an audience. The principles of effective speech; clear enunciation; the development of poise and self-confidence. Open to new students.

Courses in Journalism

Complete information concerning the curriculum leading to the degree of Bachelor of Science in Journalism may be had upon request from the office of University College.

N 11-48. Journalism I. Mr. Willier
7:45-9:30. Wednesday. Room 107, Eads Hall. Credit XIIB, 2 units. $15.00.
A beginning course of theory and practice in news writing, including the study of newspaper style, organization, and function. Copyreading and proofreading methods. Open to new students upon consent of the instructor.

N 11-50. Journalism II. Mr. Willier
7:45-9:30. Monday. Room 107, Eads Hall. Credit XIIB, 2 units. $15.00.
Advanced course for specialized training in writing for newspapers, trade, and professional publications. Prerequisite, N 11-47, 48 or the permission of the instructor.

Special Courses

N 11-By. Business English. Mr. Detjen
7:45-9:30. Monday. Room 100, Brookings Hall. Credit XIIB, 2 units. $12.50.
For those who are not sufficiently prepared to take N 11-1BX. This course covers in concise form the minimum essentials of speaking and writing correct commercial English. Open to new students upon consent of the instructor.

***N 11-D. Commercial Correspondence for Accountants.**
Mr. McCarthy or ————
7:45-9:30. Tuesday. Room 111, Eads Hall. Credit XIIA, 2 units. $15.00.
Intended primarily for accountants. A short review of composition, punctuation, spelling, capitals, italics; the form and construction of letters and reports; the fundamentals underlying routine letters, such as collection letters, credit letters, complaint letters.

S 11-R1. Book Reviewing. Assistant Professor Buchan
9:30 a. m. Saturday. Credit XIIB, 1 unit. $6.25.
Current books will be used as illustrative material, and an effort will be made to show where and how to gather information about a book and its author, how to use this material with reference to a literary category, and how to arrive, if possible, at a critical judgment.

Preparatory Courses

The units of credit in these courses are given on the basis of admission units and not on the basis of semester hours.

N 11-A2. Review of English Grammar. Mr. Morrow
7:45-9:30. Friday. Room 100, Brookings Hall. Credit E, ⅔ unit. $12.50.

For mature students who feel the need of a review of the principles of English grammar, or for those whose secondary school training has been deficient. Credit for admission will be granted for this course unless the student has already covered the same ground elsewhere. Open to new students.

N 11-B2. The Fundamentals of English Composition. Mr. Thoma
7:45-9:30. Tuesday. Room 108, Brookings Hall. Credit E, ⅔ unit. $12.50.

The study and practice of good English, both commercial and literary; oral and written exercises, combined with a thorough study of sentence structure, paragraphing, and the principles of rhetoric. Prerequisite, N 11-A1, 2 or the equivalent.

FRENCH

N 12-1B. French, Part I. Assistant Professor Faure
7:45-9:30. Thursday. Room 104, Brookings Hall. Credit I, XII, 2 units. $12.50.

Prerequisite, one year of high school or two units of college French.

N 12-6A. French, Part II. Mr. Salvan
7:45-9:30. Friday. Room 109, Brookings Hall. Credit I, XII, 2 units. $12.50.

Prerequisite, two years of high school or six units of college French.

N 12-6C. French, Part III. Associate Professor Brown
7:45-9:30. Friday. Room 209, Brookings Hall. Credit I, XII, 2 units. $12.50.

Prerequisite, three years of high school or ten units of college French.

***N 12-15. Modern French Literature.** Mr. Salvan
7:45-9:30. Monday. Room 201, Brookings Hall. Credit I, XII, 2 units. $12.50.

Lectures in French on the authors and tendencies of the period extending from 1850 to 1930.

S 12-X. Conversational French. Mr. Salvan
9:30 a. m. Saturday. Credit XIIB, 1 unit. $6.25.

Discussion of current topics and French literature. A good foundation of French grammar is requisite for admission.

GEOLOGY AND GEOGRAPHY

N 13-1B. Geologic Interpretations. Professor McCourt
7:45-9:30. Monday. Room 112, Wilson Hall. Credit I, XII, 2 units. $12.50.

Not regularly open to new students in the second semester.

N 13-1D. Laboratory in Geology. Associate Professor Shipton
7:30-10:00. Wednesday. Laboratory, Wilson Hall. Credit I, XII, 1 unit. $15.00.

Not regularly open to new students in the second semester.

N 13-8B. Applications of the Petrographic Microscope.
Assistant Professor Tolman
7:45-9:30. Tuesday. Room 201, Wilson Hall. Credit I, XII, 2 units. $12.50.

A study of the optical theory on which the use of the microscope is based; practice in the use of the microscope in the study and determination of minerals, chemical compounds, rocks, ores, and other materials of specific interest to the student. Open to new students upon consent of the instructor.

N 30-3B. Life of the Past. Assistant Professor Werner
7:45-9:30. Thursday. Room 2, Wilson Hall. Credit I, XII, 2 units. $12.50.

A survey of the fossil record of the higher phyla of the animal kingdom with particular emphasis upon the ancestry of the human race since the beginnings of life upon the earth. Open to new students in the second semester.

N 33-1B. World Geography. Associate Professor Thomas
7:45-9:30. Wednesday. Room 215, Wilson Hall. Credit I, IV, XII, 2 units. $12.50.

A study of geographic regions of the low latitudes of the earth from the point of view of analyzing geographic landscapes. A general review of the principal factors of environment and their interrelations in environment. Prerequisite for credit I, six units in Geography, for credit IV, two years of college work. Open to teachers and other mature persons upon permission of instructor.

N 33-21. Meteorology—World Weather and Man.
Associate Professor Thomas
7:45-9:30. Monday. Room 215, Wilson Hall. Credit I,[1] IV,[1] XII, 2 units. $12.50.

A study of the meteorological factors which comprise weather. A general survey of the types of weather over the earth's surface, with particular attention to the United States and especially Saint Louis. Open to new students upon consent of the instructor.

GERMAN

N 14-1B. German, Part I. Associate Professor Jente
7:45-9:30. Monday. Room 104, Brookings Hall. Credit I, XII, 2 units. $12.50.

Prerequisite, one year of high school or two units of college German.

N 14-3A. German, Part II. Assistant Professor Hofacker
7:45-9:30. Wednesday. Room 206, Brookings Hall. Credit I, XII, 2 units. $12.50.

Prerequisite, two years of high school or six units of college German.

N 14-3C. German, Part III. Mr. Georgi
7:45-9:30. Thursday. Room 229, Brookings Hall. Credit I, XII, 2 units. $12.50.

Prerequisite, three years of high school or ten units of college German.

[1] By special permission.

GREEK

N 15-1B. Elementary Greek. Professor Duncan
7:45-9:30. Monday. Room 208, Brookings Hall. Credit I, XII, 3 units. $18.75.
Prerequisite, three units of college Greek.

HEBREW

N 37-2. Elementary and Conversational Hebrew. Dr. Reiss
7:45-9:30. Thursday. Room 109, Cupples Hall I. Credit XIIB, 2 units. $12.50.
A course for those interested in the Hebrew language, both in its Biblical and modern usage. New students should consult the instructor.

HISTORY

***N 16-1B. The History of Western Europe, Part II.**
Professor McFayden
7:45-9:30. Tuesday. Room 230, Brookings Hall. Credit I, XII, 2 units. $12.50.
The second part of History I in the College of Liberal Arts, covering European History from 1485 to 1815.

N 16-1D. Europe Since 1914. Mr. Kettelkamp
7:45-9:30. Thursday. Room 230, Brookings Hall. Credit I, XII, 2 units. $12.50.
Lectures on the history of Europe from the outbreak of the Great War to the present time. The principal subjects discussed will be: the Great War; limitation of armaments; international indebtedness; post-war alliances; political changes in Germany, Russia, and Italy; and the economic depression.

N 16-15B. Europe from 1815 to 1914. Professor Usher
7:45-9:30. Monday. Room 229, Brookings Hall. Credit I, VI,[1] XII, 2 units. $12.50.
The lecturer will consider in detail the political and diplomatic history of the principal European countries from 1815 to the Great War. Prerequisite for credit, twelve hours of history.

***N 16-37B. History of the United States, 1900-1936.**
Associate Professor Bieber
7:45-9:30. Wednesday. Room 230, Brookings Hall. Credit I, VI,[1] XII, 2 units. $12.50.
The lecturer will discuss: imperialism, Theodore Roosevelt and the Square Deal, the progressive movement, Woodrow Wilson and the New Freedom, American participation in the Great War, post-war problems, Herbert Hoover and Rugged Individualism, the election of 1932, and Franklin D. Roosevelt and the New Deal. Prerequisite for credit, twelve hours of history.

A 16-1B. Introductory Course in European History.
Mr. Kettelkamp
3:30-5:00 p. m. Tuesday and Friday. Room 104, Brookings Hall. Credit I, XII, 3 units. $18.75.
Covers the period from 1648 to the present time, with emphasis on cultural, social, and economic development. Open to properly qualified students in the second semester.

[1] In addition to the definite prerequisite stated, students entering this course must have had at least two years of acceptable college work.

S 16-43. Modern World Problems. Professor Usher
9:30 a. m. Saturday. Credit XIIB, 1 unit. $6.25.
Current problems in Germany, Austria, Italy, Russia, Japan, and other countries will be discussed.

HOME ECONOMICS

N 75-8. Clothing Design. Miss Recht
7:45-9:30. Tuesday. School of Fine Arts. Credit XIIB, 2 units. $15.00.
The fundamental study of the figure, principles of design as related to dress, study of color, pattern drafting, costumes drafted and made from original design. Open to new students.

INCOME TAXES

(See under Accounting.)

INTERIOR DECORATION

A list of courses required for the Certificate in Interior Decoration may be had upon request from the office of University College.

N 6-4. Interior Decoration (Lecture Course).
Assistant Professor Valenti
7:45-9:30. Thursday. Room 116, Givens Hall. Credit XIIA, 2 units. $15.00.
Study of the decorative treatments of period interiors, the crystallization of the experience of great masters of the past, and the application of scientific and fundamental principles of design to the problems of today. Open to new students.

N 6-6. Advanced Interior Decoration (Lecture Course).
Assistant Professor Valenti
7:45-9:30. Wednesday. Room 206, Givens Hall. Credit XIIA, 2 units. $15.00.
Advanced work in Interior Decoration with particular attention to individual needs. Prerequisite, N 6-3, 4 or the equivalent. Open to new students.

N 6-20. Design. Assistant Professor Valenti and Mr. Haeckel
7:30-9:45. Monday and Tuesday. Room 103, Givens Hall. Credit XIIA, 3 units. $27.00.
Problems in design and composition; plans, elevations, and studies in perspective of interiors in water color, showing furniture and furnishings.
Those wishing to register for but one evening may do so, and pay a course fee of $15.00. Open to new students.

ITALIAN

N 40-1B. Italian for Beginners. Professor Ray
7:45-9:30. Wednesday. Room 100, Brookings Hall. Credit I, XII, 2 units. $12.50.
Prerequisite, one year of high school or two units of college Italian.

JOURNALISM

(Special courses in Journalism are described under English on page 28.)

Complete information concerning the curriculum leading to the degree of Bachelor of Science in Journalism may be had upon request from the office of University College.

LATIN

N 19-1B. Latin, Part I. Professor Tavenner
7:45-9:30. Thursday. Room 200, Brookings Hall. Credit I, XII, 2 units. $12.50.

Prerequisite, one year of high school or two units of college Latin.

N 19-2A. Latin, Part II. Dr. Duffy
7:45-9:30. Monday. Room 200, Brookings Hall. Credit I, XII, 2 units. $12.50.

Prerequisite, two years of high school or six units of college Latin.

N 19-2C. Latin, Part III. Dr. Duffy
7:45-9:30. Monday. Room 200, Brookings Hall. Credit I, XII, 2 units. $12.50.

Prerequisite, three years of high school or ten units of college Latin.

LAW

The courses in law are not given by or under the direction of the School of Law, and are not accepted for credit in that School. They are not offered as a preparation for admission to the legal profession, but will be of interest and value to various business groups.

N 70-26. Law for the Layman. Assistant Professor Treiman
7:45-9:30. Monday. Room A, January Hall. Credit IV, XII, 2 units. $12.50.

A survey of the entire field of the law for the purpose of giving the layman a practical understanding of how the law functions in typical cases. Special attention will be given to such subjects as marriage and divorce, custody and support of children, business organizations, mortgages, crimes, decedents' estates. The course is particularly recommended for social workers, but should also prove valuable to laymen whose activities bring them into contact with legal problems. Open to new students upon consent of the instructor.

***N 70-42. Business Law II.** Professor Cullen
7:45-9:30. Wednesday. Room B-2, January Hall. Credit XIIA, 2 units. $15.00.

The rules governing business men in their transactions and conduct with each other: negotiable instruments, sales, partnerships, and corporations—all from actual business transactions.

N 70-68. Real Estate Title and Conveyancing. Professor Cullen
For description of this course, see page 40.

MATHEMATICS

Courses for College Credit

For credit in Mathematics 12 in the College of Liberal Arts the student should complete N 20-12A, N 20-12B, and N 20-12C; in Mathematics 14, N 20-14A and N 20-14B, C; in Mathematics 16, N 20-16A, B, and N 20-16C.

For credit in Mathematics 1 in the Schools of Engineering and Architecture the student should complete N 20-12AE, and N 20-12B; in Mathematics 2 a student should complete N 20-12C, and N 20-14AE; in Mathematics 3, N 20-14B, C, and N 20-16A; in Mathematics 4, N 20-16B, and N 20-16C, D.

***N 20-12A. College Algebra.** Mr. Brick
7:45-9:30. Monday. Room 107, Cupples Hall I. Credit I, II, III, XII, 2 units. $12.50.

Exponents, linear and quadratic equations, progressions, permutations and combinations, the binomial theorem, logarithms, variations. Prerequisite, Intermediate Algebra.

Students desiring to receive credit in the Schools of Engineering and Architecture will register for N 20-12AE, will be assigned additional work, receive three units of credit, and pay a tuition of $18.75.

***N 20-12B. Trigonometry.** Assistant Professor Middlemiss
7:45-9:30. Friday. Room 208, Brookings Hall. Credit I, II, III, XII, 2 units. $12.50.

Trigonometric functions; derivation of important formulas; use of logarithms; solution of right and oblique triangles; applications to problems in surveying, mechanics. Prerequisite, Plane Geometry.

***N 20-12C. Analytic Geometry I.** Associate Professor Siroky
7:45-9:30. Wednesday. Room 107, Cupples Hall I. Credit I, II, III, XII, 2 units. $12.50.

This course aims to correlate and extend the student's knowledge of geometry and algebra. Geometrical facts will be proved by algebra, and algebraic processes will be elucidated by means of figures. Analytical Geometry is part of the necessary preparation for the study of calculus. Prerequisite, Trigonometry.

***N 20-14A. Analytic Geometry II.** Assistant Professor Grummann
7:45-9:30. Tuesday. Room 107, Cupples Hall I. Credit I, II, III, XII, 2 units. $12.50.

Review of analytic geometry of conic sections; the power function, the exponential and logarithmic functions, and the periodic trigonometric functions; elements of curve fitting and trigonometric interpolation; polar coordinates; parametric representation; plane curves of special interest; elements of solid analytics.

Students desiring credit in the Schools of Engineering and Architecture will register for N 20-14AE, will be assigned additional work, receive three units of credit, and pay a tuition of $18.75.

N 20-14C. Calculus I. Associate Professor Dunkel
7:45-9:30. Friday. Room 230, Brookings Hall. Credit I, II, III, XII, 2 units. $12.50.

Differentiation of algebraic, trigonometric, and the elementary transcendental functions, maxima and minima; applications to geometrical and mechanical problems. Concludes with a study of various methods of integration. Open

to new students who are familiar with the introductory part of calculus covering the derivation of the logarithm.

N 20-16B. Calculus II. Associate Professor Dunkel
7:45-9:30. Thursday. Room 107, Cupples Hall I. Credit I, II, III, XII, 2 units. $12.50.

A brief review of integration; its application to the determination of areas, volumes, lengths of arcs, moments of inertia, and centroids; a study of series, multiple integrals and differential equations. Throughout the course there will be numerous applications to problems of mechanics, physics, and engineering. Open to new students who are familiar with the usual processes of integration.

N 20-16D. Elementary Differential Equations.
Assistant Professor Grummann
7:45-9:30. Thursday. Room 105, Cupples Hall I. Credit I, II, III, XII, 2 units. $12.50.

Throughout, the applications to engineering and physical science will be emphasized. Prerequisite, a course in integral calculus. Open to new students whose work in calculus has included an introduction to differential equations.

N 51-1B. Applied Mechanics. Associate Professor Bubb
7:45-9:30. Monday. Room 113, Cupples Hall I. Credit II, III, XII, 2 units. $15.00.

Prerequisite for new students, two units of Applied Mechanics or the equivalent.

***N 20-20. Business Mathematics.** Assistant Professor E. Stephens
7:45-9:30. Monday. Room 109, Cupples Hall I. Credit XIIA, 2 units. $15.00.

Interest, discount, sinking funds, bond valuation, depreciation, and mathematics of life insurance. Prerequisite, half a year of Algebra.

Preparatory Courses

N 20-B. Algebra I. Assistant Professor E. Stephens
7:45-9:30. Wednesday. Room 105, Cupples Hall I. Credit E, ⅔ unit. $12.50.

Prerequisite for new students, one semester of high school Algebra.

***N 20-D. Solid Geometry.**
Assistant Professor E. Stephens or ————
7:45-9:30. Monday. Room 115, Cupples Hall I. Credit E, ⅔ unit. $12.50.

Prerequisite, a high school course in Plane Geometry, or the equivalent.

MUSIC

N 24-2. Appreciation of Music. Mr. Ringgenberg
7:45-8:45. Wednesday. Room 113, Givens Hall. Credit XII, 1 unit. $10.00.

Intended alike for the technical musician and those who wish to become intelligent auditors. Open to new students upon consent of the instructor.

***N 24-7. Choir Training and Service Playing.** Mr. Ringgenberg
7:45-9:00. Tuesday. Mr. Ringgenberg's studio. Credit XIIB, 1 unit. $10.00.

A practical course for organists in choir training and church music repertoire, trio playing, sight playing, modulation, hymns, anthems, and score reading.

A 24-1. Music in Its Background. Associate Professor Webster
4:00-5:15. Tuesday. Old Chapel, Brookings Hall. Credit XII, 1 unit. $7.50.

The aim of this course is to present in a non-technical fashion the development of musical form and expression against the social and cultural background of the period. Particular attention will be given to modern music in relation to earlier schools and to contemporary tendencies.

A 24-3. Elementary Harmony. Mr. Ringgenberg
5:15-6:15. Monday. Mr. Ringgenberg's studio. Credit XII, 1 unit. $10.00.

Scales, intervals, cadences, sequences, triads and their inversions, seventh chords and their inversions, keyboard harmony, harmonizing melodies. Open to new students upon consent of the instructor.

***A 24-5. Sight Singing and Ear Training.** Mr. Ringgenberg
5:15-6:15. Wednesday. Mr. Ringgenberg's studio. Credit XII, 1 unit. $10.00.

A scientific study of the rudiments of music, through an aural and visual perception of rhythmic and melodic elements applied to reading at sight. The course is designed to give a thorough ground work in general musicianship. This is done chiefly through dictation and sight singing by intervals in the treble, bass, and C clefs.

NURSING

(See also courses in Sociology and Social Work.)

Students who wish to have courses taken in University College count toward the Certificate in Public Health Nursing and the degree of Bachelor of Science in Nursing must matriculate in the School of Nursing.

***N 35-101A. Principles of Public Health Nursing.** Miss Hott
7:45-9:30. Wednesday. School of Nursing, 416 South Kingshighway. Credit X, 2 units. $12.50.

This course outlines briefly the history and development of public health nursing; discusses the organization, program, principles, and problems in public health nursing; and considers the relationship of public health nursing groups to other community welfare groups.

OCCUPATIONAL THERAPY

University College accepts certain of the work completed by students at the Saint Louis School of Occupational Therapy. It outlines for those students interested in a degree the academic courses which are essential and necessary as an accompaniment to this work, and it extends to those students who wish to continue their work and complete the requirements for the degree of Bachelor of Science in Education the opportunity of meeting the requirements prescribed for the degree, either through evening courses, or by full-time residence in the day school. An outline of the general courses of study may be obtained from Miss Geraldine Lermit, Director of the Saint Louis School of Occupational Therapy, 4567 Scott Avenue, but students who contemplate completing their work and receiving a degree must have their records evaluated by and consult with the Dean of University College at least a full year before the degree can be conferred. Recommendations and suggestions for further procedure may also be obtained by addressing the Dean of University College.

PHILOSOPHY

N 22-11B. Ancient and Modern Conceptions of Man and the World. Associate Professor Chambers

7:45-9:30. Monday. Room 203, Brookings Hall. Credit I, XII, 2 units. $12.50.

An historical approach to the outstanding ideas which man has used in interpreting his experience. Prerequisite, two units in Philosophy.

***N 22-12. Ethics.** Associate Professor Chambers

7:45-9:30. Wednesday. Room 203, Brookings Hall. Credit I, XII, 2 units. $12.50.

The class will study the meaning of such words as "good and evil," "right and wrong," "conscience," "duty," "virtue." It will attempt to define the standard of moral conduct by a criticism of the theory that the aim of life is to secure the greatest amount of happiness, whether to the individual or "the greatest number."

***N 22-13A. The Philosophy of Religion.** Professor Cory

7:45-9:30. Thursday. Room 201, Brookings Hall. Credit I, XII, 2 units. $12.50.

The meaning of religion from the point of view of modern thought and its relation to evolutionary science and the social order; the essential elements of religion and their functions in man's life as a whole. Prerequisite for credit, six units in Philosophy. Open to mature persons not desiring credit.

PHYSICAL EDUCATION

(See also under Hygiene.)

***N 31-16. Leadership in Extra-curricular Activities.** Assistant Professor Schriver

7:45-9:30. Monday. Room 115, Eads Hall. Credit XII, 2 units. $12.50.

Planned to meet the needs for a technique of leadership in social activities in connection with playgrounds, recreation centers, settlements, churches, camps, and schools. Students will be given the opportunity to plan and to direct programs under a project method procedure. While the emphasis of the course will be upon the method, a wide variety of material adapted to various conditions will be presented.

N 31-X. Swimming for Women—Elementary and Advanced. Miss Davies

7:45-9:15. Monday. Wilson Pool. Credit XII, 1 unit. $7.00.

For the learning of new strokes and the perfecting of those already known.

N 31-11. Swimming for Women—Methods of Teaching Swimming and Red Cross Life Saving. Miss Davies

7:45-9:45. Monday. Wilson Pool. Credit XII, 2 units. $12.50.

For those desiring to learn the newer methods of teaching techniques, methods, and adaptations of all the digerent strokes used in swimming. The theory and practice of life saving will be taught according to the American Red Cross Life Saving Service. Open to advanced swimmers, subject to the approval of the instructor.

PHYSICS

N 23-1D. Magnetism, Electricity, and Light.
Associate Professor Hagenow

7:15-10:15. Thursday. Room 101, Wayman Crow Hall. Credit I, XII, 1½ units. $15.00.

Not regularly open to new students in the second semester.

POLITICAL SCIENCE

N 25-1B. American National Government.
Assistant Professor Norton

7:45-9:30. Monday. Room 109, Brookings Hall. Credit I, XII, 2 units. $12.50.

Designed to give the citizen a basic knowledge of the government under which he lives. Open to new students. To receive credit, students must complete N 25-1A later.

N 25-3B. American State and City Government. Mr. Young

7:45-9:30. Tuesday. Room 200, Brookings Hall. Credit I, XII, 2 units. $12.50.

A descriptive survey and a critical study of the governments and problems of the forty-eight states with their cities, counties, townships, and unincorporated subdivisions. Open to new students. To receive credit, students must complete N 25-3A later.

N 25-7B. Political Parties. Assistant Professor McKenzie

7:45-9:30. Wednesday. Room 204, Brookings Hall. Credit I, XII, 2 units. $12.50.

A study of the historical development, organization, and methods of political parties in the United States. Special attention will be given to current American politics both in theory and in practice. Prerequisite for credit, four units in Political Science. Open to new students. To receive credit, students must complete N 25-7A later.

PSYCHOLOGY

Courses in Psychology for credit toward a degree are open only to those who have completed one year of college work. N 9-1A and N 9-1B are prerequisite to all other courses in Psychology, and together with two additional units in Psychology are equivalent to Psychology 1, 2 in the College of Liberal Arts. Psychology 1 in the College of Liberal Arts is "Introduction to Psychology" and Psychology 2 is "Educational Psychology."

***N 9-1A. General Psychology.** Associate Professor Lemmon

7:45-9:30. Monday. Room 202, Eads Hall. Credit I, XII, 2 units. $12.50.

A careful survey of the principles of human psychology; the fundamentals of human behavior; the facts and principles which have most significance for practical affairs and the conduct of life in general.

***N 9-1B. Applied Psychology.** Assistant Professor Bunch

7:45-9:30. Thursday. Room 202, Eads Hall. Credit I, XII, 2 units. $12.50.

A study of the application of the principles of psychology to the conditions of everyday life; personal efficiency, the influence and control of human behavior, mental health, education, religion, and business.

N 9-6. The Pre-School Child. Dr. Kubitschek
For description of this course, see page 21.

N 9-10. Mental Hygiene. Dr. Meltzer
7:45-9:30. Wednesday. Room 208, Brookings Hall. Credit I, XII, 2 units. $12.50.

The origin, development, and deviations in personality make-up are discussed. Reactions having mental hygiene implications in infancy, childhood, adolescence, and adult life are evaluated with reference to prevention and management. Prerequisite for new students, a course in mental development or permission of the instructor.

N 9-56B. Psychological Tests and Measurements. Dr. Magdsick
7:45-9:30. Monday. Room 211, Eads Hall. Credit I, XII, 2 units. $12.50.

Tests of scholastic achievement, vocational aptitudes, and methods of measuring personality and character traits. Open to new students in the second semester.

***N 9-59. Abnormal Psychology.** Assistant Professor Bunch
7:45-9:30. Wednesday. Room 202, Eads Hall. Credit I, VI,[1] XII, 2 units. $12.50.

The principles of abnormal psychology; the psychology of abnormal forms of human behavior; the theory and technique of psychoanalysis.

***N 9-65A. Modern Systems of Psychology.**
Associate Professor Lemmon
7:45-9:30. Thursday. Room 111, Eads Hall. Credit I, XII, 2 units. $12.50.

Lectures and readings on the great psychologists of the day and their schools and systems: the behaviorists, the introspectionists, the Gestalt psychologists, the instinct psychologists, the psychoanalysts, and others.

N 26-15A, B. Social Psychology. Professor Bernard
For description of this course, see page 41.

N 9-20. Vocational Psychology and Guidance. Mr. Parker
For description of this course, see page 22.

PUBLIC SPEAKING

Courses in Public Speaking are described under Courses in Speech, a subdivision under English, on pages 26-28.

REAL ESTATE

Complete information concerning the curriculum leading to the Certificate in Real Estate may be had upon application to the office of University College.

N 41-2. Real Estate Fundamentals. Mr. Slonim
7:45-9:30. Wednesday. Room B, January Hall. Credit XIIA, 2 units. $15.00.

Real estate financing, marketing, city planning, housing, condemnation, taxation, ethics and practices, and similar subjects. Open to new students; arranged for their convenience.

[1] In addition to the definite prerequisite stated, students entering this course must have had at least two years of acceptable college work.

***N 41-46. Real Estate Appraisal.** Mr. Slonim
7:45-9:30. Tuesday. Room 109, Cupples Hall I. Credit XIIA, 2 units. $15.00.

This course emphasizes the economic and social factors entering into the valuation of real property, deals with the methods of appraising all types of income property, and the gathering of data required. The case system will be employed in the latter part of the course. Students may, under the supervision of the instructor, prepare actual appraisals of local properties for discussion in class.

***N 70-68. Real Estate Title and Conveyancing.** Professor Cullen
7:45-9:30. Thursday. Room B-2, January Hall. Credit XIIA, 2 units. $15.00.

The modes of acquiring interests in land; the form and content of deeds, including restrictive and other covenants; the form and content of mortgages; foreclosure and other remedies; other liens on real property; forms and covenants in leases and the relation of the landlord and tenant; title by judicial decree, descent, and devise; insurance and tax problems affecting title.

RUSSIAN

N 28-2. Russian. Mr. Baron
7:45-9:30. Wednesday. Room 104, Brookings Hall. Credit XIIB, 2 units. $12.50.

A practical course open to all interested in the Russian language and literature. Elementary grammar, reading of easy Russian stories, oral work, and the study of Russian classics. Open to new students upon consent of the instructor.

SALESMANSHIP

A list of courses required for the Certificate in Sales Management may be had upon request from the office of University College.

***N 47-2. Principles of Salesmanship II.** Mr. Bryan
7:45-9:30. Monday. Room 228, Brookings Hall. Credit XIIA, 2 units. $15.00.

A continuation of N 47-1. The problem of distribution from the practical as well as from the theoretical viewpoint: sales demonstrations by well-known firms; sales demonstrations by members of the class; analysis and application of effective sales methods; selecting, training, directing, and stimulating salesmen; some of the important high-lights of sales management. Open to new students upon consent of the instructor.

SOCIOLOGY AND ANTHROPOLOGY

(See also courses under Social Work, Psychology, and Nursing.)

Students entering courses in Sociology and Anthropology must present one year of acceptable college work.

Sociology

N 26-1B. Elements of Sociology. Professor Queen
7:45-9:30. Thursday. Room 228, Brookings Hall. Credit I, XII, 2 units. $12.50.

A study of social processes, groups, institutions, and personalities as influenced by the social environment. Constant reference to actual social situations will furnish concrete material for analysis and illustration. Prerequisite for credit, one year of college work and two units in Sociology.

N 26-15B. Social Psychology. Professor Bernard
7:45-9:30. Monday. Room 106, Brookings Hall. Credit I, IV, VI[1], 2 units. $12.50.

Attitudes: their modification and development under social pressures; the interactions of individuals and groups. Prerequisite for credit, N 26-1A, B or Psychology, N 9-1A, B.

Anthropology

N 30-1B. Introduction to Physical Anthropology.
Assistant Professor Williams
7:45-9:30. Tuesday. Room 113, Givens Hall. Credit I, IV, XII, 2 units. $12.50.

Designed for students wishing to obtain a general knowledge of anthropology from the biological viewpoint. The lectures will be generously illustrated. Open to new students upon consent of the instructor.

N 30-2B. Introduction to Cultural Anthropology.
Professor Bodenhafer
7:45-9:30. Wednesday. Room 109, Brookings Hall. Credit I, XII, 2 units. $12.50.

The origin and physical development of man; early material civilization and cultural evolution; beginnings of myths, traditions, rites, and customs; the social institutions; natural history of the family, religion, civil society, art; invention; diffusion; social change; social standards and social control. Open to new students in the second semester.

N 30-3B. Life of the Past. Assistant Professor Werner
For description of this course, see page 30.

N 10-2B. Art and Archaeology of the Ancient World.
Associate Professor Mylonas
For description of this course, see page 15.

SOCIAL WORK

(See also courses under Sociology, Anthropology, Psychology, and Nursing.)

Students who have already acquired credit in college courses may be permitted to take courses in Social Work for a degree in the School of Business and Public Administration, provided they first secure the approval of the Dean of that School.

Students wishing to enroll for advanced courses in Social Work are urged to confer with Professor Bruno before registering.

***N 26-45. History of Social Welfare.** Professor Bruno
7:45-9:30. Tuesday. Room 107, Duncker Hall. Credit I, IV, XII, 2 units. $12.50.

The story of public and private social work from the passage of the English Poor Law in 1601 to the present time. Prerequisite for credit IV, N 26-35 (The Socially Inadequate); for credit I and XII, six units in Sociology.

[1] In addition to the definite prerequisite stated, students entering this course must have had at least two years of acceptable college work.

N 26-155B. Introductory Social Case Work.
Assistant Professor Feder
7:45-9:30. Monday. Room 218, Eads Hall. Credit IV, VI,[1] XII, 2 units. $12.50.
Prerequisites for credit, N 26-35 (The Socially Inadequate), and N 26-45. Open to new students who present two units in Introductory Social Case Work.

***N 26-176. Legal Protection of the Child.**
Associate Professor Burke
7:45-9:30. Friday. Room 201, Brookings Hall. Credit IV, VI,[1] XII, 2 units. $12.50.
A study of legislation, judicial procedure, and penology as related to the child. Prerequisite, N 26-175 (Child Welfare).

N 70-26. Law for Social Workers. Assistant Professor Treiman
For description of this course, see N 70-26 on page 33.

A 26-156B. Elementary Field Work. Assistant Professor Feder
By appointment. Credit IV, VI,[1], 3 units. $18.75.
An opportunity will be given properly qualified students to take supervised field work if the student has a sufficient number of free hours during the day. Approval of the instructor required for admission. Prerequisite, N 26-155A, B, or concurrent registration in it.

***M 26-45. History of Social Welfare.** Professor Bruno
8:00-9:30 a. m. Wednesday and Friday. Room 117, Rebstock Hall. Credit I, IV, XII, 3 units. $18.75.
The story of public and private social work from the passage of the English Poor Law in 1601 to the present time. For prerequisite, see under N 26-45.

SPANISH

N 27-B; N 27-1B. Elementary Spanish. Assistant Professor Eoff
N 27-B: 7:45-9:30. Thursday. Credit I, XII, 2 units. $12.50.
N 27-1B: 7:45-9:00, Monday; 7:45-9:30, Thursday. Room 206, Brookings Hall. Credit I, XII, 3 units. $18.75.
New students should confer with instructor before registering.

N 27-20B. Intermediate Spanish. Mr. King
7:45-9:15. Monday and Thursday. Room 115, Cupples Hall I. Credit I, XII, 3 units. $18.75.
Prerequisite for new students, two years of high school or one year of college Spanish.

SPEECH

(See under the general heading of English on pages 26-28 for Courses in Speech.)

ZOÖLOGY

N 29-1B. General Biology. Dr. Taylor
7:15-10:15. Monday. Rooms 201 and 213, Rebstock Hall. Credit I, XII, 1½ units. $15.00.[2]
Not regularly open to new students.

[1] In addition to the definite prerequisite stated, students entering this course must have had at least two years of acceptable college work.
[2] In addition a deposit of $4.00 for the year is required to cover materials used in the laboratory.

N 29-2B. Comparative Embryology of Vertebrates. Mr. Eastlick
7:15-10:15. Monday. Room 215, Rebstock Hall. Credit I, XII, 1½ units. $15.00.[1]
Not regularly open to new students.

***N 29-3B. The Theory of Evolution.** Dr. Taylor
7:45-9:30. Wednesday. Room 313, Rebstock Hall. Credit I, XII, 2 units. $12.50.
A lecture and discussion course on the evolutionary theories of Darwin, Lamarck, De Vries, and others; the history of the evolutionary idea, the evidence upon which the doctrine of evolution rests, the evolution of man, and the future of evolution.

[1] In addition a deposit of $4.00 for the year is required to cover materials used in the laboratory.

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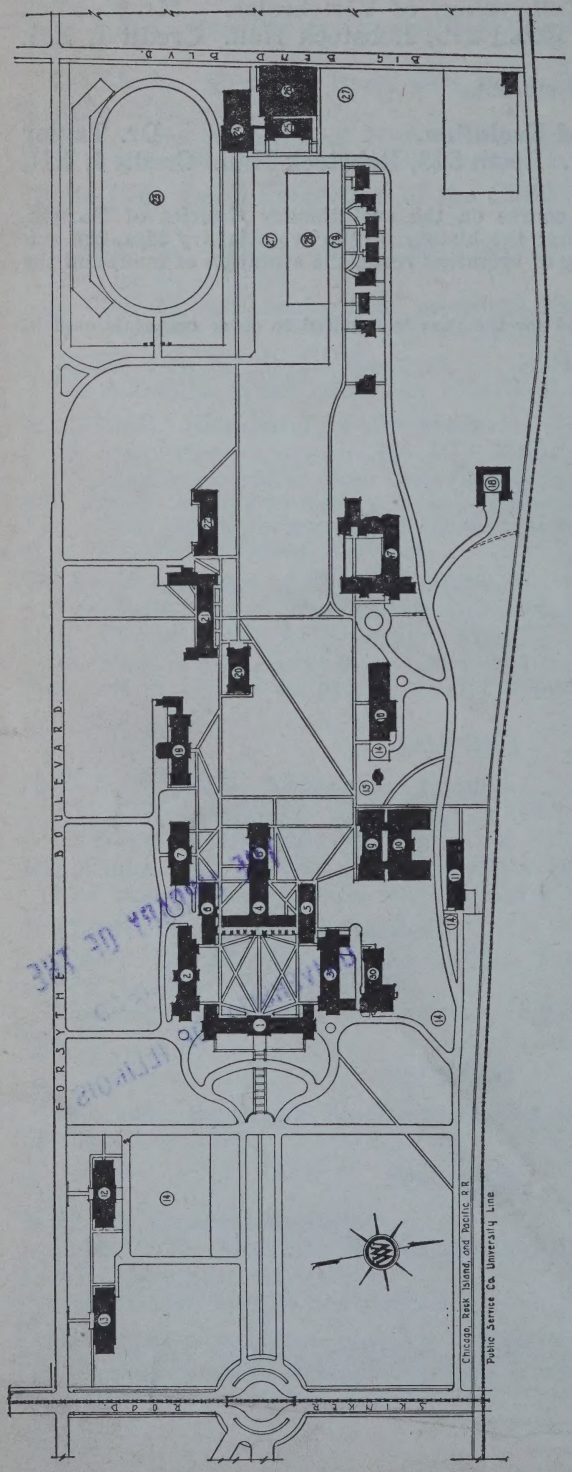

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